THE CHEMIST AND DRUGGIST

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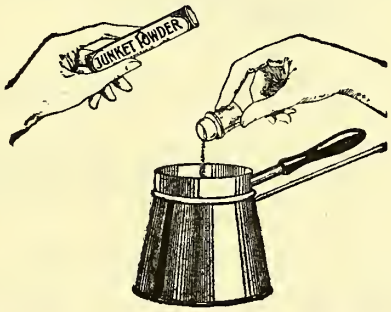

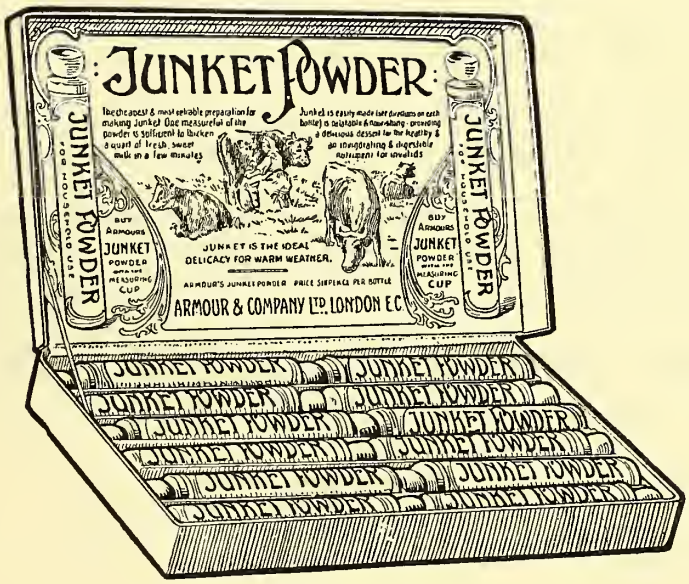

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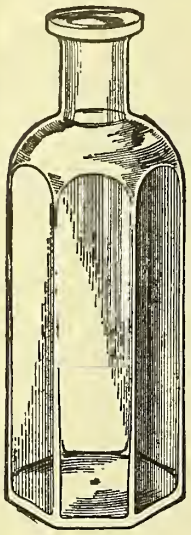

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Evans Sons Lescher & Webb, Ltd
Griffin, J. J., & Sons, Ltd.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Knoll & Co., Ltd.
May & Baker, Ltd.
Merck, E.
Sturge, John & E., Ltd.
Tyrer, T., & Co., Ltd.
Washington Chemical Co., Ltd.
Whiffen & Sons, Ltd.
White, A., & Sons
Widenmann, Broicher & Co., Ltd.

CHLORATES, PERCHLORATES
Société d'Electro-Chimie

CHLORIDE OF LIME
Brunner, Mond & Co., Ltd.

CHLORODYNE
Davenport, J. T., Ltd.

CHLOROFORM
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
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CIGARS AND CIGARETTES
Singleton & Cole, Ltd.

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British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Sturge, John & E., Ltd.

CLINICAL THERMOMETERS
Burge, Warren & Ridgley, Ltd.
Maw, S., Son & Sons
Perken, Son & Co., Ltd.
Pillischer, J.
Powell, J. T., & Co.
Zeal, G. H.

CLOTH BALLS
O'Neil, Zetts & Co.
Senier, Alf., & Co

COAL TAR SPECIALITIES
Wright Layman & Umney, Ltd

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Boehringer, C. F., & Soehne
Buchler & Co.
Merck, E.

COCOA
Cadbury Bros., Ltd.
Plasmon, Ltd.

COD LIVER OIL
British Drug Houses, Ltd., The
Bugge, Johann & Co.
Evans Sons Lescher & Webb, Ltd.
Jervell & Co., Ltd.
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ltd.

COLLAPSIBLE TUBES
Betts & Co., Ltd.

COMBS
Gripwell
Hovenden, R., & Sons, Ltd.
Simplex Conduits, Ltd.

COMPLEXION SPECIALITIES
"Cyclax" Company

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Bennett Sons & Shears, Ltd.

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Bush, W. J., & Co., Ltd.

CONFECTIONERY, MEDICATED
Guest, Thos., & Co.
Pascall, James, Ltd.

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Bresillon, M., & Co.
Kopp & Joseph
Roberts & Co.
Schacht, Warner & Co.
Wilcox Jossan & Co.

COPPERSMITHS
Braithwaite, H., & Co.

CORKS
Mitchell, N. W., & Sons, Ltd.

CORN EXTERMINATOR
Gardner

CORN PLASTERS
Beiersdorf, P., & Co.
Solport Bros.

CORRUGATED PAPER
Brightling, Geo. C., & Co., Ltd.

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Curling, Geo., Wyman & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd

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Forgrove Machinery Co., Ltd.

COURT PLASTER
Solport Bros.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Morson, T., & Son

CREPE BANDAGES
Gimber, W., & Son
Burge, Warren & Ridgley, Ltd.
Norwich Crepe Co. (1855), Ltd.
Wood, Vincent

CYANIDES
May & Baker, Ltd.

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Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

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Fentiman, A. G
Fentiman, A. J., & Co.
Halder, E. C.
Wardale, F. C., & Co

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Claughtons, Ltd.
Edwards' Dental Mfg. Co., Ltd.

DENTIFRICES
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
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Blackie, Robert
British Medical Toilet Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Eucryl, Ltd
Hayden Coffin T. P.
Jewsbury & Brown
McKesson & Robbins
Maw, S., Son & Sons
Odol Chemical Works
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.

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Express Developing Co.
Johnson & Sons (Mfg. Chts.)

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Scott, R. M.
Van Abbot, G., & Sons

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Brook, Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd
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Maw, S., Son & Sons
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Goodall, Backhouse & Co.
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Farina, J. M. (No. 4)
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Ichthyol Gesellschaft

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Burroughs Wellcome & Co.

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Burgoyne, Burbidges & Co.
Evans Sons Lescher & Webb, Ltd.
Jackson, Ernest, & Co.
Mumford, G. S., & Sons
Solassi

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May & Baker, Ltd.

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Solport Bros.
Swales, Thomas

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Burt, Boulton & Haywood, Ltd.

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Evans Sons Lescher & Webb, Ltd
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Kerfoot, Thomas, & Co.
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Scott & Bowne, Ltd.
Squire & Sons, Ltd.
Standard Tablet & Pill Co., Ltd.
Stedman, J. H.
Thermogene Co., Ltd.
Thompson & Capper
Tokalon, Ltd.
Tozer, Jas. V.
Tunbridge & Wright
Warrick Bros., Ltd.
White, A. J., Ltd.
Wilcox, Joseau & Co.
Woodward, W., Ltd
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

PUFFS
Solport Bros.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Alliance Drug & Chem. Co.
Boehringer, C. F., & Soehne
Buchler & Co.
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.

RADIUM AND SALTS
Buchler & Co.
Hopkin & Williams, Ltd.

RAZORS
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Macfarlan, J. F., & Co.
Morson, T. & Son
Ransom, W., & Son, Ltd.
Smith, T. & H., Ltd.

RESPIRATORS
Wallach Bros., Limited
Zimmer & Co.

RUBBER GOODS
Berliner, Arthur
Burge, Warren & Ridgley Ltd
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd.

RUBBER STAMPS
Richford, C. D.

SACCHARIN
Saccharin Corporation, Ltd.

SANTONIN
Merck, E.
Smith, B. A., & Co.

SAPONIN
Field, C. W.

SCIENTIFIC APPARATUS
Griffin, J. J., & Sons, Ltd.
Reynolds & Branson, Ltd
Perken, Son & Co., Ltd.
Pillischer, J.

SEA SALT
Tidman & Son, Ltd.

SEED-DRESSING
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

SEEDS
Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co
Evans Sons Lescher & Webb, Ltd
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Joseau & Co.

SHAMPOO POWDERS
Standard Tablet & Pill Co., Ltd.

SHARES
McAdam & Tucknies

SHEEP DIPS
Burt, Boulton & Haywood, Ltd
Chemical Union, Ltd.
Tomlinson & Hayward, Ltd.

SHOP FITTINGS
Ayrton-Graham, Ltd.
Cook, George
Evans Sons Lescher & Webb, Ltd
Grant, D.
Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Rudduck & Co.
Sangers

SHOULDER STRAPS
Wood, Vincent

SHOWCARDS
Bell Advertising Co.

SILVERWARE TOILET GOODS
Scott Adolph

SOAP-MAKING PLANT
Forshaw, E., & Son, Ltd.

SOAPS, TOILET, &c.
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Chesebrough Manfg. Co.
Christy, Thos. & Co
Clough & Firth, Ltd.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Euoryl, Ltd.
Evans Sons Lescher & Webb, Ltd
Field, J. C & J., Ltd.
Fulford, C. E., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McClinton's, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ltd.
Providol Company
Resinol Chemical Co.
Wright, Layman & Umney, Ltd.

SODA FOUNTAINS
Flugel & Co.

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S., & Sons

SOOTHERS
Newbery, F., & Sons, Ltd.
Schutse, F., & Co., Ltd.

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.

SPERMACETI
Price's Patent Candle Co., Ltd.

SPICES
Goodall, Backhouse & Co.

SPIRIT OF WINE
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

SPONGES
Internl. Sponge Importers, Ltd.

SPRAYS
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.
Wallach Bros., Ltd.

SPRINKLER CORKS
Betts & Co., Ltd.

SPRUCE BEER
Hobson, Joseph, & Son

STARCH
Mumford, G. S., & Sons

STILLS
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

STOPPERS
Stipendum Stopper Co

SULPHUR WATER (NATURAL)
Clough & Firth, Ltd.

SURGICAL APPLIANCES AND DRESSINGS
Allen & Hanburys, Ltd.
Bailey, W. H., & Son, Ltd.
Berliner, Arthur
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Haywood, J. H., Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Martindale, W.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. C., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Taylor, W. G.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

SYPHON FILLER
Flugel & Co.

SYPHONS
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Sharman's Pat. Syphon Co., Ltd.

SYRUPS, MEDICINAL
Fellows' Med. Mnfg. Co.
Martindale, W
Sinaloe Co., Ltd.

TABLET MACHINERY
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson S. W., & Co.

"TABLOID" PRODUCTS
Burroughs Wellcome & Co.

TAP JARS
Fulham Pottery & Cheavin Filter Co., Ltd.

TARTARIC ACID
Boehringer, C. H., Sohn
British Drug Houses, Ltd., The

TEATS
Ingram, J. G., & Son

TABLETS, COMPRESSED
Allen & Hanburys, Ltd.
Bayer Co., Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
British Drug Houses, Ltd., The
Brook, Parker & Co., Ltd.
Burgoyne, Burbidges & Co.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Johnson & Sons (Mfg. Chts).
Lloyd, H., & Co., Ltd.
Martindale, W.
Parke, Davis & Co.
Shirley Bros., Ltd.
Standard Tablet & Pill Co., Ltd.
Stohr, Dr. Franz, Ltd.
Thompson & Capper, Ltd.
Toser, Jas. V.
Wand Manfg. Co.
Wigglesworth & Co.

TIN BOX MAKERS
Goodall, Backhouse & Co.
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd

TINCTURES IN BOND
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Ransom, W., & Son, Ltd.

TOBACCO
Sangers
Singleton & Cole, Ltd.

TOILET ARTICLES
Allen & Hanburys, Ltd.
Ansora Perfumery Co.
Armour & Co., Ltd.
Ayrton, Saunders & Co., Ltd.
Beetham, M., & Son
Blackie, Robert
Bronnley, H., & Co., Ltd.
Burroughs Wellcome & Co.
Chesebrough Mnfg. Co.
Christy, T., & Co.
Clough & Firth, Ltd.
Cook E., & Co., Ltd.
Cox, Arthur H. & Co., Ltd.
"Cyclax" Company
Daisy, Ltd
Edwards' Harlene Co.
Erasmic Co., Ltd.
Eucryl, Ltd.
Fulford, C. E., Ltd.
Harker, Stagg & Morgan, Ltd.
Hovenden, R., & Sons, Ltd.
Kopp & Joseph
Lloyd, Aimée & Co.
Lloyd, A. S. (Hovenden)
Lorimer-Marshall, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Osborne, Garrett & Co.
Papier Poudré, Ltd.
Parks, Davis & Co.
Pasery, Richard
Prichard & Constance, Ltd.
Providol Gesellschaft
Quelch, H. C., & Co.
Roberts & Co.
Sangers
Shirley Bros., Ltd.
Softo Manfg. Co.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co., Ltd
Steedman, J. H.
Tokalon, Ltd
Woolley J., Sons & Co., Ltd.

TOILET PAPER
Ayrton, Saunders & Co., Ltd.
Burgoyne, Burbidges & Co.
Diamond Mills Paper Co.
Ford Shapland & Co.
Townsend, J., & Sons

TOURS
Free Church Touring Guild

TRADE-MARKS AGENTS
Barker, R. W.
Ford, Shapland & Co.
Haworth, John B

TUBE-CLOSING MACHINE
Griffin, J. J., & Sons, Ltd.

TURNED WOOD BOXES
Rogers & Co.

TRUSSES
Bailey, W. H. & Son, Ltd.
Davis, John Morgan, & Sons
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Sangers
Schutze, F., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

VACUUM FLASKS
Millard Bros., Ltd.
Metz, Paul
Read & Campbell, Ltd.

VACUUM PANS
Bennett, Sons & Shears, Ltd.
Stokes, F. J., Machine Co.

VALUERS
Baker, P. C.
Berdoe & Fish
Brett & Co.
Evans, Gadd & Co., Ltd.
Orridge & Co.
Tomlinson, T., & Son

VAPORIZERS
Hall, Forster & Co., Ltd.

VASELINE
Chesebrough Mnfg. Co.

VERMIN-KILLERS
Battle, Son & Maltby
Christy, T., & Co.
Cupal, Ltd.
Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ltd
Farmer, F., & Co.
Harley, Thomas
Harrison, G. W.
London Hygienic Chemical Co.
Milner's Chemical Co.
Steiner, E., & Co.

VETERINARY REMEDIES
Chesebrough Mnfg. Co.
Christy, Thos., & Co.
Day & Sons (Crewe), Ltd.
Edwards, W., & Son
Harvey & Co. (Dublin)
Senier, Alf., & Co.
Tomlinson & Hayward, Ltd.
Wyleys, Ltd.
Zimmermann, C., & Co

VETERINARY INSTRUMENTS
Mason Bros. & Chapman
Maw, S., Son & Sons

VINEGAR
Grimble & Co.

WATER GLASS
Barclay & Sons, Ltd
Tomlinson & Hayward, Ltd.

WATER STILL
Brown & Sons
Stokes, F. J., Machine Co.

WATERS, CONCENTRATED
Robinson, B., & Co., Ltd.

WAXES
Price's Pat. Candle Co., Ltd.

WEED-KILLERS
Harrison, G. W.
Reade Bros. & Co., Ltd.
Tomlinson & Hayward, Ltd

WINDOW FITTINGS
Ayrton-Graham, Ltd.

WINDOW TICKETS
Merten, F., & Co.

WINES
Burrough, J., Ltd.
Smith, Stephen, & Co., Ltd.

WINES, MEDICATED
Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co.
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.
Smith, Stephen, & Co., Ltd.

WINES (NON-ALCOHOLIC)
Welch Grape Juice Co., Ltd.

WRIST STRAPS
Solport Bros.

ZINC OXIDE
Hubbuck, T., & Son, Ltd.
Stevenson, H. E., & Co.

ZINC SULPHIDE SCREENS
Buchler & Co

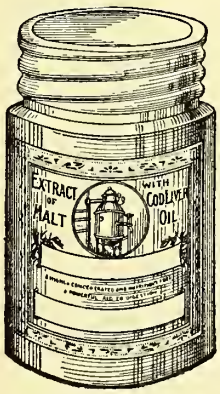
YOUR REQUIREMENTS BOOKED FOR

EXTRACT OF MALT
EXTRACT OF MALT WITH COD LIVER OIL

OF FINEST QUALITY

(15 per cent. B.P.C. and N.H.I.)

NEATLY PACKED.



FREE PACKAGES.
FREE SHOWCARDS.
FREE DELIVERY.

	Jars per doz.	Tins per doz.
8-oz.	4/-	3/6
1-lb.	6/-	5/6
2-lb.	10/6	9/9
4-lb.	20/6	19/-

Minimum, 3 dozen.

PACKED IN PATENT JARS OR SOLDERED TINS.

OWN NAME ON LABEL.

A Sheffield Dispensing Chemist writes:—"People speak well of your Malt and Oil. They like the flavour."

A Stockport Pharmacist writes:—"Very well satisfied with what you sent *last week*. Let this lot be the same."

Davies, Sons & Co

Have you ordered your Lung Tonic yet?

Manufacturing Chemists,

THE BRIDGE STREET, DERBY.

CARMAROLE COMPOUND

A Scientific Preparation
for the Treatment of

Kidney and Bladder Trouble, Rheumatism, General Weakness, Anæmia, and for enriching and purifying the Blood.

Prevents Acidity, is cooling and refreshing to the system, sweetens the stomach, tones up the nerves, and possesses remarkable Anti-Rheumatic and Liver Cholagogue properties.

You can recommend Carmarole Compound to your customers, feeling you are giving them a **good** honest medicine, well worth the price.

Advertised price, **2/9.** :: Price to Chemists, **27/-.**
Chemists' profits protected by the P.A.T.A.

From any Wholesale House or direct from

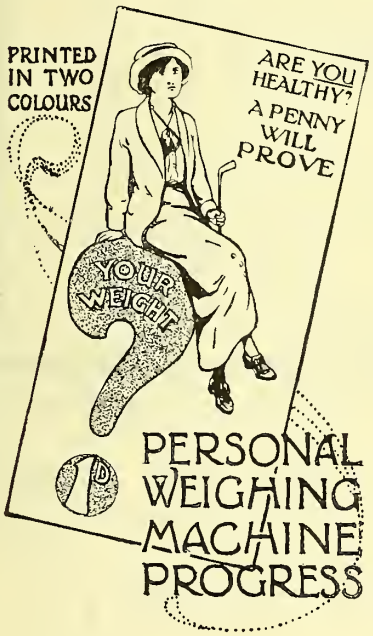
INTERNATIONAL LABORATORIES,
Carlton House, Great Queen Street, London, W.C.

The page you are looking for

S. MAW, SON & SONS
7 TO 12, ALDERSGATE ST.
LONDON, E.C.

Maw's Page.

No. 128. MARCH 28, 1914.



The above is an illustration of one of a series of five Showcards we are distributing free with our Personal Weighing Machines.

FIVE FREE CARDS

Such an attractive offer will, we feel confident, still further popularise their installation in Pharmacies as profitable business assets. This Showcard measures $10\frac{1}{2} \times 6\frac{3}{4}$ in., and appeals particularly to all sport lovers.

OUR LATEST MODEL

We have just introduced a new machine, the details of which may be of interest to those Pharmacists who are contemplating such an addition to their source of remuneration.

The new model (B3870/R) is of best English make, fitted with hardened steel bearings and notched steelyard, with sliding poise. Weight about 58 lbs. Size of base 13 in. × 23 in. from back to front. Height 52 in., length of steelyard 12 in. To weigh up to 24 stones, graduated in ounces. It is a handsome machine, decorated in chocolate and gold. Price 68/6.

TELEPHONE (4 LINES)
LONDON WALL 3230
TELEGRAMS & CABLES
'ELEVEN, LONDON'
CODE. ABC (4TH & 5TH EDN)

NOTES & NEWS

ESPECIALLY during the Spring cleaning season, Maw's Pink Plate Wool is a very saleable line. 4/- per dozen. Fixed selling price, 6d. per carton. Splendid free salecards.

* * * *

ONE of our latest showcards exhibits 12 "Meteor" Files—quite a new line. The files are composed of a substance peculiar to India; admirable for filing down soft or brittle nails. Each mounted on marble or alabaster. Price 4/- per card.

* * * *

"*REQUISITES* for the Invalid" is the subject of the latest suggestion for window displays in our Showroom. The central feature is a typical sick-room table with the inevitable bottle of physic—an idea any Pharmacist can effectively carry out.

OUR OPTICAL CORNER

A ONE-LEGGED TALK!

A BRIEF CHAT

There is a rule among certain natives in Africa that a person may make a speech only as long as he is able to stand on one leg. Brevity is therefore ensured. Metaphorically, we are going to have a "one-legged" chat about our Optical Department.

We want every Pharmacist-Optician to place a trial order for Prescription or Repair work with us. We should like our customers to note the excellence of our work, and the promptitude with which it is executed. We look at our work from our customers' point of view :—"Please the patient or lose further orders." This is why our Expert Staff is always busy.

Every stage of its passage through qualified hands, even the smallest order, bears the unmistakable stamp of "Maw Quality."

EYE-GLASS CHAINS

Our new style ear-pattern eye-glass chains have proved very popular. In place of the usual chain we have substituted a piece of gimp forming a strong yet almost invisible link between the ear and the glasses. In 3 patterns, 5/- per dozen, on cards.

S & S

HOLIDAYS

LEADING 1914 LINES

During the coming months "Maw's Page" will give special attention to the requirements of Pharmacists who may be interested in the cultivation of "Holiday Trade." For Easter and the 1914 Season we have an exceptional selection of Travelling Requisites of every description.

REMEMBER "MAW QUALITY"

P.A.T.A.

"GUYCOSE." "IROCOSE." "PHOSPHOCOSE."

Medicated Meat Albumoses.

"GUYCOSE," "IROCOSE," and "PHOSPHOCOSE" are sent out in sterile condition, no preservatives being added. They should therefore be supplied in Original Bottles only (2/9 each).

"ASPIRIN"

is the trade mark exclusively applied to the "Bayer" brand of the acetic ester of salicylic acid prepared by a special process. All the original investigations were carried out with "ASPIRIN," and thousands of medical publications testify to its value as an analgesic, antipyretic, &c.

THE BAYER CO., LTD.,
19 St. Dunstan's Hill, LONDON, E.C.

ARE YOU READY

to meet the big demand for a really reliable Egg Preservative?

People are weary of the old-fashioned methods, which are so unreliable.

Before the invention of

GARANTOL

THE BEST EGG PRESERVATIVE,

there was no method that could be absolutely relied upon, but GARANTOL is sure, it is clean, it is economical.

GARANTOL is a powder—simply requires dissolving in cold water. Eggs will keep fresh and sweet for twelve months in it.

Will you take advantage of the good business and excellent profits GARANTOL can make for you?

Let us send you full particulars—write to-day.

SOLE AGENTS FOR THE UNITED KINGDOM—

THE HOME YEAST CO. Ltd.
47 St. Paul's Street, Leeds.

BEFORE PLACING YOUR ORDERS

for any of the undermentioned lines, APPLY for PRICES, &c., to the LARGEST PACKERS in the TRADE and

SAVE MONEY!

- "Vaseline"
- Camphor Ice
- Lanoline
- Cold Cream
- Cocoa Nut Oil
- Lip Salve
- Eucalyptus Oil
- Balsam of Aniseed
- Lung Syrup
- Household Embrocation
- Camphorated Oil
- Anti-Catarrh Salts
- Malt and Oil
- Primrose Tablets
- Brompton Lozenges
- Pine Tree Lozenges
- Licorice Juice ("Alcazar" Brand) in Sticks 4's, 5's, 8's, and 16's to the lb.
- Menthol Snuff
- Menthol & Eucalyptus Snuff
- Tube Goods of all kinds, including—
- Toilet Creams,
- Jellies, Tooth Pastes,
- Chillie Paste,
- Camphor Cream, &c.
- Brilliantine
- Lime Cream
- Toilet Paraffin
- Tooth Powder, &c.

TABLETS & PILLS.

We are now in a position to save you money on these also.

SHIRLEY BROTHERS, LIMITED,
Whitecross Works, Rockingham St., LONDON, S.E.

UNPRECEDENTED BOOM IN

THERMOGENE

CURATIVE WADDING

¶ Show the well-known Orange-Coloured Packets in your window.

Identify *your* Pharmacy with Thermogene and secure your share of the increased business.

SHOWCARDS, DUMMIES, BOOKLETS, FREE.

WRITE FOR SPECIAL BONUS TERMS.

THE THERMOGENE CO., Ltd., Haywards Heath.

FASSETT & JOHNSON, 86 Clerkenwell Road, London, E.C.

EVERY CUSTOMER

EVERY CUSTOMER who enters your pharmacy is potentially an "Ovaltine" purchaser, because "Ovaltine" is a beverage, a pleasant, hot, breakfast or supper beverage. There are tremendously big possibilities for you in "Ovaltine," and we are helping you by creating a strong demand outside.

Our window display purchasing terms yield you 52% on your outlay. Let us send you particulars.

A. WANDER, Ltd., 1/3 LEONARD ST., LONDON, E.C. and King's Langley, Herts.

T 35.

TRADE MARK OVALTINE TONIC FOOD BEVERAGE

CUSHION SHAPED

LIQUORICE and MENTHOL PELLETS.

THE ORIGINAL AND THE BEST.

3s. 6d. per lb. Also in Tins at 2/- and 4/- doz.

ERNEST JACKSON & CO.,

Telegrams: "Jackson Crediton."

Crediton, & Plantain Place, Crosby Row, Borough, S.E.

PRICES PROTECTED.

Dr. Allinson's Food Preparations.

Food for Babies, Prepared Barley, Brunak, Power, N-F. Cocoa, Biscuits, Soup, Nutbutter (Walnut Brand), Wholemeal, &c.

NOTICE TO THE TRADE.

We issue a list of WHOLESALE HOUSES who keep above in stock; if for *any* reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. Allinson." *None Genuine Without.*

NATURAL FOOD COMPANY, LIMITED,
305 Cambridge Rd., Bethnal Green, LONDON, E.

Handbills, Booklets, Showcards, &c., Free.

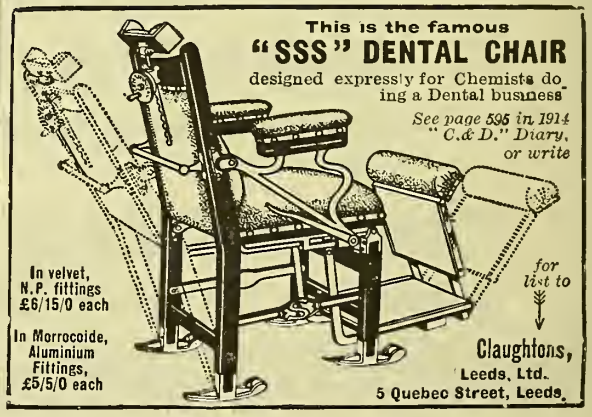
N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade.

This is the famous

"SSS" DENTAL CHAIR

designed expressly for Chemists doing a Dental business

See page 595 in 1914 "C.& D." Diary, or write



In velvet, N.P. fittings £6/15/0 each

In Morrocoide, Aluminium Fittings, £5/5/0 each

for list to

Claughtons, Leeds, Ltd.
5 Quebec Street, Leeds.

20,000 Doctors are recommending PLASMON ALL NOURISHMENT OATS

Because *It is the Perfection of Oatmeal, and of "VERY HIGH NUTRITIVE VALUE."*

Food & Dietetics.

Delicious Nutty Flavour. Five minutes' boiling only. Double the quantity of Porridge.

6d. per packet. **LARGE PROFITS FOR YOU.**

LET YOUR CUSTOMERS KNOW YOU STOCK.

PLASMON, LTD. **66a Farringdon Street, LONDON, E.C.**

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3/6
* " " " " "	1/-	7/-
* " " " " bottles in cartons	1/6	10/6

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 1/ 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

Do You Sell Sister Lauras Food?

The question is often asked nowadays. The Chemist who does not stock Sister Lauras Food is missing a good line.

Sister Lauras Food is achieving great success as a preparation for weakly babes and for invalids and the aged.

It makes milk digestible and is invaluable in cases of malnutrition.

It is a thoroughly reliable line and one that brings a handsome return.

Samples and advertising matter free on application.

SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street, GLASGOW.

SAL HEPATICA

PUT UP FOR EXPORT.

Small Size, 3 oz. bottle, in case.
Medium ,, 7 ,, ,, ,,
Large ,, 16 ,, ,, ,,

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, 24 Orange Street, Haymarket, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman St., E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Roberts & Co., 76 New Bond Street, W.

A REVOLUTION IN EGG PRESERVATION

"TESTING HER WARES."
From the original painting purchased by Keeps Ltd.

KEEPS
Egg Preservative
"DIAMOND BRAND."

Enables Users to preserve their Eggs TWELVE MONTHS so that they will fry, poach, or boil without cracking.

It may interest readers to learn that the originator of this preparation—our Managing Director—is well known to the scientific world as the inventor of VIROL

"On Friday last we called at Keeps' offices and were allowed to test some eggs that had been 'down' for twelve months. We broke one into a glass, and not only did it turn out well, but the flavour of the yolk was equal to that of the best new-laid egg, and it was difficult for us, either by taste, sight or smell, to distinguish from that egg and one taken from the nest. We then boiled one for four minutes, and after sampling it we had to admit that the results were such that we do not hesitate to pronounce the 'Diamond Brand' the best Egg Preservative on the market, since eggs kept in it can scarcely be detected from new-laid, and DO NOT CRACK in the process of boiling."
POULTRY.

Testimonials from actual users have reached us by the hundred, which are published in our REGISTER for 1914, and will be sent to those interested.

KEEPS EGG PRESERVATIVE is packed in 1 lb. canisters at 1/4 each, or in 7, 14, & 28 lb boxes at 1/- per lb

This preparation will be advertised very largely indeed this season in every Poultry paper of importance, and we have directed consumers so far as possible to obtain their supplies through Chemists, but last year there were so many expressions of disappointment that they were unable to get it that we hope this season the Trade will be more disposed to meet the requirements of their customers. Printed descriptive leaflets sent by request.

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Best Quality Only.

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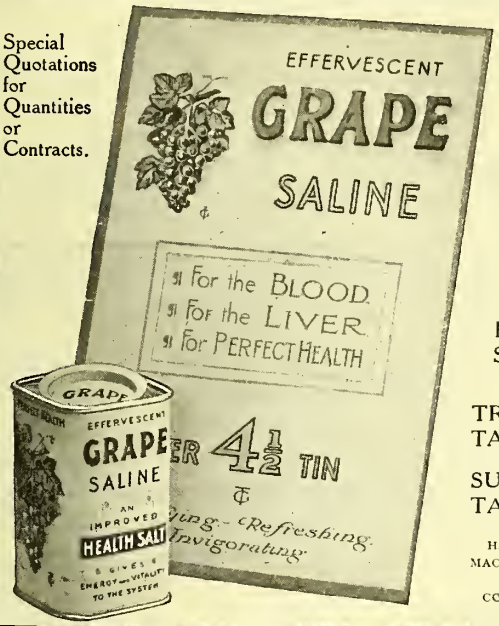

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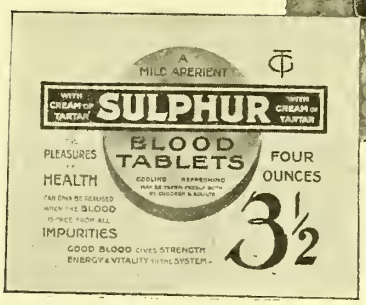

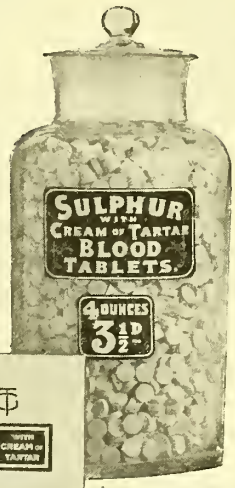

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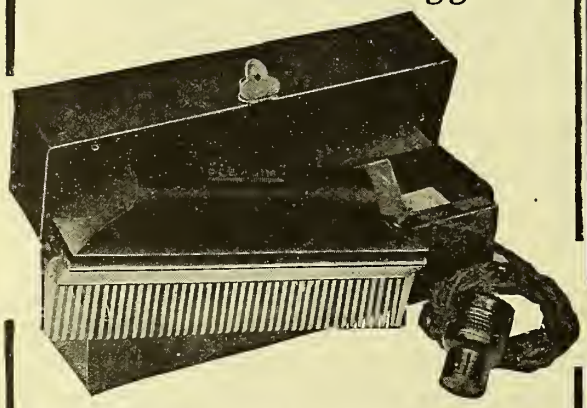

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We stock several grades of Paraffin. Liquid., but in all cases the quality complying with the B.P. requirements is supplied unless instructions are given to the contrary.

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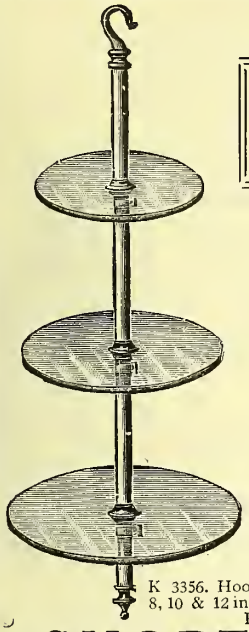

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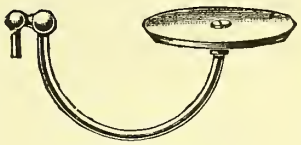

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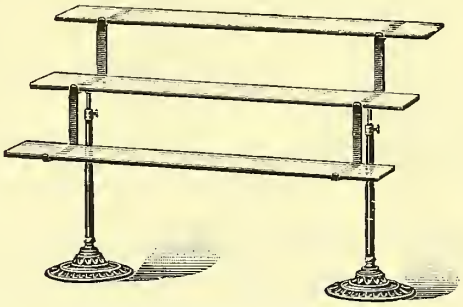

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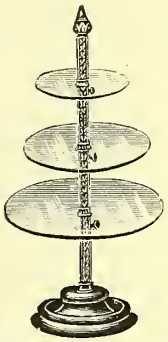

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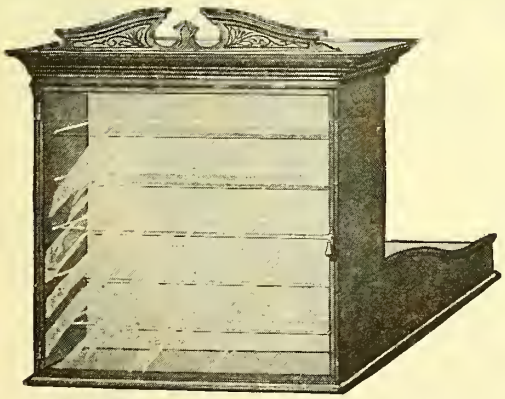

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FOR CHIP, TAGAL and YEDDA HATS.

NON-INFLAMMABLE.

¶ Each bottle is packed in a cardboard box with suitable brush. ¶ Made in thirty of the latest and most fashionable shades, **the finest range ever offered.** ¶ A Folding Hinged Showcard 13 × 10 with 30 specimens of dyed plait, supplied with all orders, counter bills, etc. ¶ These Dyes dry at once without gloss, are rainproof and will not chip or crack. Finest quality, best packing.

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Prepared Solely by

Mrs. Hemming, England's Premier Beauty Specialist.

THESE PREPARATIONS NEVER FAIL TO PRODUCE

PERFECTION OF COMPLEXION

AND

PERFECTION OF CONTOUR

Certain Demand. Extensively Advertised, these Preparations for the Skin have had an Enormous Sale for 25 years. Most liberal Discounts. Full particulars direct from the Manufacturers.

WHOLESALE AND EXPORT OFFICES—

The "Cyclax" Company

58 South Molton Street, London, W.

These Preparations are obtainable at Selfridge's, Harrods', Whiteley's, &c.

Australian Agents - - Rocke, Tompsitt & Co.

These Preparations keep perfectly in any climate.

"Cyclax" Skin Food is regularly used by the World's most beautiful women

DRUGGISTS' TURNED WHITE WOOD BOXES

(ENGLISH MANUFACTURE)

OF EVERY DESCRIPTION.

These Boxes are made from Selected White Willow Wood & finely finished.

They are very cheap, from 1/- per gross upwards, WOODEN BOTTLES & VIALS also from 1/- per gross upwards.

Pill Boxes.

Inventors & Patentees of

Silicated Grease-proof Boxes.

A boon to Ointment Manufacturers.

A perfect substitute for a Covered Pot.

Wooden Vials.

Unbreakable and very light and saves half the duty in Countries where it is charged on the gross weight.

SILICATED GREASE PROOF PATENT BOXES

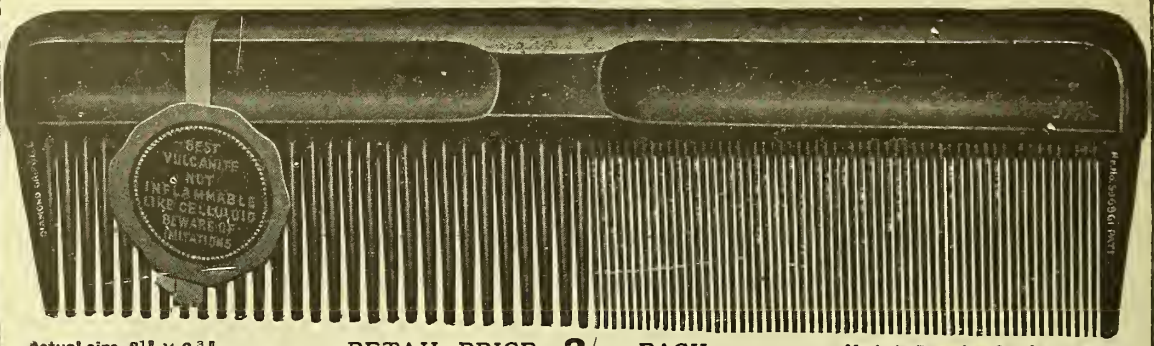
See that each Silicated Box is Stamped on the bottom with our Stamp, to avoid worthless imitations.

Price List and Samples on application.

ROGERS & CO., Carter St., Walworth, LONDON, S.E.

Traun's "DIAMOND" Gripwell Comb

PATENT, DESIGN REGD.



Actual size, $8\frac{1}{4}$" × $2\frac{3}{16}$". RETAIL PRICE **3/-** EACH. Made in Dressing Comb and Rake.

Specially designed to make the use of the Comb a **Perfect Luxury and Comfort.**
All teeth carefully grailed and highly polished. Made of **Finest Para Vulcanite,** which does not split like Horn, but is **Elastic, Strong and Springy,** and is the **Ideal Material for Combs.**

Manufactured by the Makers of the

CELEBRATED GRIPWELL COMBS,

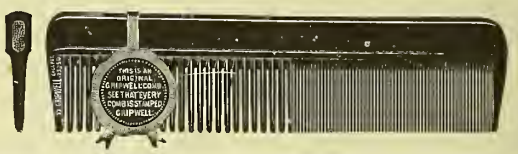
which are supplied in a variety of shapes and sizes

TO RETAIL FROM 1/- UPWARDS.

STYLISH SHOWCARDS SUPPLIED.

SOLD BY ALL THE USUAL WHOLESALERS.

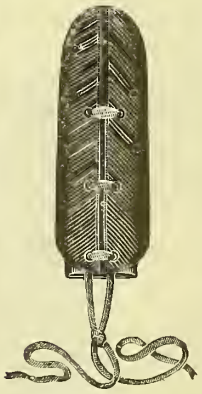
GUARANTEED UNBREAKABLE.



PAROUBEK'S "FOLDO" LACING FINGER STALLS

(BLACK OR TAN)

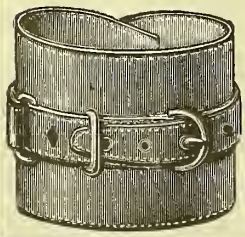
3/9 PER DOZEN.



PAROUBEK'S "TRIUMPH" WRIST STRAPS

(Felt lined). 3/9 per doz.

BOTH THE BEST.



Of all Wholesale Houses.

Sole Consignees for Great Britain and Colonies:

SOLPORT BROS.
184-190 GOSWELL RD., LONDON, E.C.

WILLIAM LASSON'S Hair Elixir

has a 30 years' reputation as an

Unique Hair Producer.

All wholesale houses supply it.

Chemists & Druggists should apply for

COLOURED ART PRINT,

a great help in pushing its sale. Post free. Write to-day to

Sole Consignee:

M. LINDNER,
FARRINGDON AVENUE, LONDON, E.C.

KYHO

Registered. Registered.

(Protected by the P.A.T.A.)

The Wonderful New HAIR RESTORER

Cooling and refreshing to the scalp, promoting new growth and restoring the natural vigour of the Hair.

Contains no grease or colouring matter, yet has been found to revive the natural pigment.

Sold in bottles, **2/6**; minimum retail price, **2/3.**
To the Trade, **21/-** per doz. from all the leading Wholesale Houses, or from the

KYHO PROPRIETARY, Ltd., 17 Victoria St., S.W.

A Special **BRILLIANTINE** and a **SHAMPOO FLUID** are also supplied to be used with **KYHO. 1/-** per bottle; **9/- doz** to trade.

For further particulars see our full page advt. in "The Chemist & Druggist," March 30, 1912.

Telephone: CENTRAL 702.

ADOLPH SCOTT,

Telegraphic Address: "ADOLPH BIRMINGHAM."

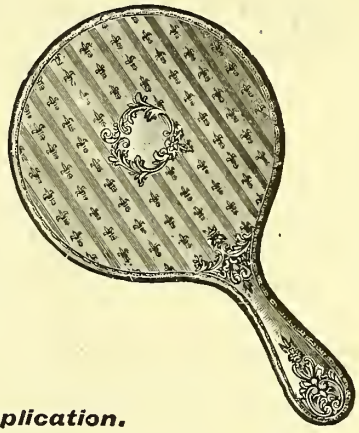
24, 25 & 26 GREAT HAMPTON STREET, BIRMINGHAM.

SILVERSMITH & SPECIALIST IN TOILET WARE.

Latest Designs in

BRUSHES
MIRRORS
COMBS
SCENT BOTTLES
SCENT SPRAYS
TOILET BOTTLES
TRINKET BOXES
MANICURE SETS, &c.

IN STERLING SILVER AND ALSO IN SILVER PLATED.



Catalogues on Application.

ROBARE'S AUREOLINE

Or GOLDEN HAIR WASH.

4-oz. Bottles, 33/- 10-oz. Bottles, 66/- per doz.

Wholesale from R. HOVENDEN & SONS, LTD., and from all the principal Patent Medicine Warehouses in London.

AMAMI

MANICURE PREPARATIONS ARE THE BEST.

PRICHARD & CONSTANCE, 469 Holloway Rd., London, N.

SPECIALITY—AMAMI NAIL POLISHING STONE.

Headquarters for **Photographics**

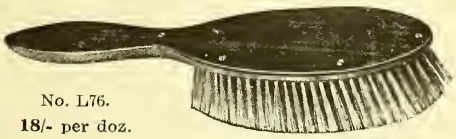
Chemists should write us for PRICE LIST and full particulars of all Photo requisites.

W. BUTCHER & SONS, Ltd. CAMERA HOUSE, FARRINGDON AV., E.C.

See our advt. on pages 580 & 581, the "C. & D." Diary, 1914.

The First of 1914

TURNER'S NEW LINES.



No. L76.
18/- per doz.

Specially brought out for those of our customers who need a Strong Leading Line at a low price. The Brush is well finished, has a good appearance, and will wear well. Why not send for a sample, and then try a window lead of at least 1 dozen? The sales will surprise you!

Made only by—
TURNER, SON & CO., LTD., 49 Tabernacle St., Finsbury Sq., LONDON, E.C.

The Best Paying 1d. Line is

SOFTO

FOR CHAPPED HANDS.

WHOLESALE PRICES.

		s.	d.
1 gross "Softo" with 4 doz. bonus	- -	6	0
½ gross ,, ,, 1½ doz. ,,	- -	3	0
3 doz. ,, ,, 1 doz. ,,	- -	1	9

A Chemist writes: "Please send our goods immediately, as the 1 doz 'Softo' was cleared in a day."

The SOFTO Manufacturing Co.
33 Edgware Road, Park Lane, W.

£5 REWARD!

is what we offer you in profits on each gross sold of

ROYAL COURT HAIR DYES,

and greater still is the margin if you take advantage of our window show bonus offer :—

	Cost Price.		Selling Price.
1 gross 1/3 size Royal Court Hair Dyes	£4 10 0		£9 0 0
1 doz. " " " bonus for window show	—		0 15 0
½ doz. 2/- size " " " " " "	—		0 6 0
	4 10 0		10 1 0
Less 5% cash 7 days	0 4 6		4 5 6
	4 5 6	showing	5 15 6 PROFIT.

OUR sales for the past ten years have steadily increased until our certified figures for 1912 showed an output double any previous twelve months' record. In seven months' trading last year we reached the figures of 1912. As we do not advertise direct, this is a proof of the merit of Royal Court Hair Dyes and the satisfaction we give our customers in reasonable profits.

SELL THE BEST AND GIVE YOUR CUSTOMERS SATISFACTION.

J. KNOX WALKER & CO., LTD., 422 Kingsland Road, London, N.E.

THE LESCOL PERFUMERY CO.

beg to announce that in addition to their well-known popular lines they now have an extensive range of

NEW LINES.

Before placing orders, BUYERS will be well advised to send a card stating requirements, when a price list with coloured illustrations of those suitable to their market will be sent immediately.

Orders dispatched in rotation ; to ensure early delivery write at earliest opportunity to :—

THE LESCOL PERFUMERY CO.,
LOMOND GROVE,
CAMBERWELL GREEN,
LONDON, S.E.

Telephone : 810 Hop.

Telegrams :
"Vanillin-Camber, London."

Please order from your Wholesale House, and specify

FINEST

LIQUID PARAFFIN

(STERN'S MAKE)

¶ Highly recommended for Internal Use.
¶ The Highest Standard of Excellence.
¶ Water White, free from Taste and Smell.
¶ Quality and Purity guaranteed.

Water White and White Paraffin Oils.
Petroleum Jellies (Par. Molle and Alb. Flav.)

Wholesale only from the Makers, STERN SONNEBORN OIL CO., LTD.
51 ROYAL LONDON HOUSE, FINSBURY SQ., LONDON, E.C.

SANTROCYL
Capsules & Perles.

A NEW & IMPROVED
SANTAL-WOOD PREPARATION.

				Per doz.
Boxes,	containing	24	Capsules in each,	10/-
,,	,,	36	,, ,,	14/-
Bottles	,,	36	Perles ,,	9/-
,,	,,	50	,, ,,	12/6

Prepared to suit all climates.

OBTAINABLE FROM
MAY, ROBERTS & CO., LTD., Clerkenwell Road, E.C.
BARCLAY & SONS, LTD., 95 Farringdon St., E.C.
BROWN, GRAY & CO., 548 Argyle St., Glasgow.
BUTLER & CRISPE, Clerkenwell Road, E.C.
OR ANY WHOLESALER.

Large Profit! Selling Lines!

SENIER'S

Hat-Cleaning Balls
(Each in a hat),
24/- per gross net.

Hat-Cleaning Powder
(In Envelopes),
12/- per gross net.

Cloth Ball
(White or Coloured),
54/- per gross.

SAMPLES FREE ON APPLICATION.

A. SENIER & CO.
195 Seven Sisters Road,
Finsbury Park, London, N.

PEACH KERNEL OIL

(Guaranteed to pass any test of purity).

GENUINE SWEET ALMOND OIL

(Guaranteed B.P.)

JOSEPH GAZAN, Marseilles,
makes quite a specialty of the above.

STOCK KEPT IN LONDON.
Contracts delivered according to Buyers' requirements.

QUOTATIONS AND SAMPLES FROM THE SOLE AGENTS—

PLANTIN BROS., 5 Water Lane, Great Tower Street, London, E.C.

George Lueders & Co.

NEW YORK,
218 & 220 Pearl Street.

Branches:
CHICAGO, SAN FRANCISCO & MEXICO CITY.

Import and Export of

ESSENTIAL OILS, VANILLOES

SYNTHETIC PERFUMES,
MUSK, AND CIVET.

We export: LINALOE (from Mexico directly), PEPPERMINT, BAY OIL, SPEARMINT, WORMSEED, WORMWOOD, &c.

HANDKERCHIEF EXTRACTS

All usual odours and the following new creations:—
Violette Victoria, Ixia, Orchidil Ambre, and No. 15.
Of the highest concentrations.
POMADES. CORPS DUR. PERFUMED OILS.
Please write for Price List.

CLAUDE RAYNAUD & Cie.,
100 BERMONDSEY STREET, LONDON.

DIRECT IMPORT FROM JAPAN

WE SELL TO ARRIVE.

HAIR, NAIL AND TOOTH BRUSHES. ALSO ALL KINDS OF ANTIMONY METAL BOXES SUITABLE FOR JEWEL CASES AND FOR TOILET PURPOSES.

H. D. HARDIE & CO., 176 Ingram Street, GLASGOW.

L. GIVAUDAN,

GENEVA, SWITZERLAND.

Manufacturer of all kinds of

SYNTHETIC & AROMATIC CHEMICALS

Acetate of Linalyl
Bergamot art.
Cinnamic alcohol
Citronellol
Coumarin
Geraniol
Geranium
Jacintheas
Jasmins
Musks
Neroli
Phenylethylic alcohol
Rhodinol
Roses
Violets

&c. &c.

LONDON BRANCH: 43/45 Great Tower Street, E.C.
Telephone Number: Avenue 83.
Telegraphic Address: "Muskinol-Bilgate, London."
AMERICAN BRANCH: Geo. Lueders & Co.,
218 & 220 Pearl Street, New York.

HANSA-PLATZ
Eau de Cologne.

JOHANN MARIA FARINA.

Gold Medals Awarded
AT ALL THE
PRINCIPAL EXHIBITIONS.

Unsurpassed for
Excellence of Quality.

Special Discounts.
Large Sales.
Good Profits.

One of the best selling and most satisfactory lines on the Market.

Full Particulars—
F. Schutze & Co., Ltd.
(SOLE AGENTS FOR BRITISH EMPIRE)
Black Bull Works, Caledonian Market, London, N.

A. Boake Roberts
& Co., Ltd.,
STRATFORD, LONDON, E.

. . FOR . .

SOLUBLE ESSENCES,
ESSENTIAL OILS,
OIL LEMON.

If you wish to make first-class
∴ Aerated Waters, use ∴
BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

Lemon,
Orange,
Ginger,
Ginger Ale,
Stone Ginger Beer *(Cloudy),*
Clear Ginger Beer,

Kola Champagne,
Lime Juice and Soda,
Lemon Squash,
Raspberry,
Strawberry,
Pineapple,
Vanilla, &c. &c.

GOLDEN CARAMEL COLOURINGS, &c.
and all sundries.

A. Boake Roberts
& Co., Ltd.,

Our

ROSE, JASMIN & NEROLI Synthetics

can be used in the place of the Natural Oils to great advantage, at a much cheaper cost.

BLUE BAND BRAND

SICILIAN ESSENTIAL OILS,

guaranteed absolutely pure, from our own works in Messina.

DIRECT IMPORTERS OF

FINEST VALENCIA SAFFRON,

guaranteed genuine B.P.

SAMPLES AND PRICES ON APPLICATION.

FELICE BONAVENTURA & CO.,

98 Great Tower Street, LONDON, E.C.

Telephone No.: Avenue 2743.

Telegraphic Address: "Felibona London,"

Ask for General Price List.

"A Bottle of Anzora, Please!"

If you have not already had this demand you shortly will have, for "Anzora Cream" is being extensively advertised both in the Press and on the Railways—every day thousands of prospective buyers see these advertisements and are influenced to buy.

Be prepared to meet these buyers. Stock "Anzora" now, it will mean extra and remunerative business for you, for "Anzora" is on the P.A.T.A. and ensures

80 °/o Protected Profit for the Retailer

when purchased in lots of 3 doz. and upwards.

Trade Terms:

Per doz.	Retailed at
11/6	**18/-**
19/6	**30/-**

We give 10 °/o discount on orders of 3 dozen or more.

ORDER A SUPPLY TO-DAY from your usual Wholesaler and send a card to us for Showcards.

THE ANZORA PERFUMERY CO.

32/34 Willesden Lane, London, N.W.

TWO of the World's FACE POWDERS ARE

Bourjois' Java Powder.

Minimum Retail Price ... 9½d. per Box.
1 doz. 7/6 per doz.; 6 doz. 7/3 per doz.;
12 doz. 7/- per doz.

BOURJOIS' Poudre Manon Lescaut

20/- per doz.

POPULAR EVERYWHERE.

BOURJOIS' Eyebrow Pencils, Rouges, Perfumes, Soaps, &c., always command a ready sale.

SOLE AGENTS—

HENRY C. QUELCH & CO., Ludgate Square, LONDON, E.C.

OUR NEW PREMISES

AFFORD US MUCH-NEEDED

LARGER ACCOMMODATION.

IN CELEBRATION

we are shortly making a great Free Distribution of handsomely got up, fully fitted Beauty Satchels, and are also throwing open to the public

A £50,000 BONUS SCHEME

The sales of the world-renowned "Harlene" Toilet Preparations have long been items to reckon with, and there is every indication of 1914 being a record year.

YOUR BENEFIT

will be the greater if you stock a complete range.

Full particulars of the scheme later.

The £50,000 Bonus Scheme will be backed by Press Publicity on the largest scale.

Send P.C. for Price List, Counter Bills, Showcards and Dummies, free.

EDWARDS' "HARLENE" CO.

20-26 Lamb's Conduit St., London, W.C.

Two New Proprietaries

		Per Doz.	P.A.T.A.
SILMERINE	Hair Curling Fluid -	22/6	2/6
TEKKO PASTE.	Camphor Cream	22/6	2/6

Order from your Wholesaler, under our usual guarantee to take back any unsaleable stock and refund cash.

DEARBORN, Limited,
32 & 34 THEOBALD'S ROAD, W.C.

OVER 100% PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.

THE BEST BUSINESS
is the outcome of a Pharmacist's personality.

JEWSBURY & BROWN'S
ORIENTAL
TOOTH POWDER,

6d. and 1/-,

is made by a firm of the highest repute throughout almost a Century.

Established 1826.

JEWSBURY & BROWN, Ardwick Green, MANCHESTER.

EUCRYL

Yields

100% PROFIT.

MAKE 1914 PROFITS BETTER.

From January to December you can readily sell Eucryl Tooth Powder, and ON EVERY SALE YOU CAN POSITIVELY MAKE 100% profit.

Take up Eucryl—just see what a difference one year's trading with but this one article at 100% profit will make to your net profits at the end of the year. Start now by accepting this

SPECIAL BONUS OFFER

With every opening order for three dozen tins of Eucryl we send one dozen 6d. tins extra and free of charge. (This offer of one dozen 6d. tins free also applies to all repeat orders of six dozen tins at 3/6 per dozen net, carriage paid). Free samples, showcards, advertising matter — Selling Helps — supplied with every order for "The Dentifrice paying 100% profit."

EUCRYL

Limited,

61-63 Lant Street, Southwark, London, S.E.

THE BEST!
THE CHEAPEST!
THEY ARE SMITH'S,
THAT'S ALL!

PRICE LIST.

Nos. 0, 1, 2, 3, 3B, 10, 20, 30 for Phials	**4**d.	per gross.
,, 4, 4B, 40 for 3 to 6 oz. Bottles	**5**d.	,,
,, 5, 5B, 5½, 50 for 8 to 10 oz. Bottles	**5½**d.	,,
,, 6, 6B, 60 for pints	**6**d.	,,
,, 39, for Winchester Quarts...	**8**d.	,,
,, 8, Long for Wines	**10**d.	,,

Stamping in Relief, Names, &c., 3d. per gross extra. Elastic Bands, small, 3d.; large 4d. per gross.

SYPHON CAPS. "SOLACE" BRAND TOILET ROLLS.

Can be obtained of all Sundriesmen or direct from the Manufacturers–

SMITH BROS. & CO., Ltd. Manufacturers of DISH & DESSERT PAPERS and all kinds of Fancy Paper Goods.

Head Office—64 Great College Street, London, N.W.

Wholesalers and Exporters do well to send us their inquiries.

Telephone—3855 P.O. HAMPSTEAD.

Quality & Price in Tubes

Quality is of primary importance in Collapsible Tubes, Sprinkler Corks, Shaving Stick Tubes, and all Druggists' Metal Goods; and given quality, the next consideration is a reasonable price.

Our experience of more than 100 years and our reputation are sufficient to assure you of obtaining goods upon the quality of which you may rely absolutely; the largest factory in the world, a staff of 800 hands, and the scale on which we buy our raw material, enable us to give you an advantage in price as well.

Have you seen our Patent Adhesive Capsule, which cannot be removed without destroying it?

Absolute guarantee of purity of the contents.

BETTS & CO., Ltd., 1 Wharf Rd., City Rd., LONDON, E.C.

'SEMREH'

THE LAST WORD

in Bottle Cappings. Air-tight, spirit-proof, easy to put on, self-fitting: the bottle's contents hermetically sealed.

Use 'SEMREH' HALF-CAPS for PERFUMERY

Full particulars on request.

The VISCOSE DEVELOPMENT CO., Ltd.,
Pembroke Road,
BROMLEY, KENT.

SELF-FIXING BOTTLE CAPS

V188

Ambulance Outfits

POCKET SETS, suitable for Boy Scouts, Cyclists, Motorists, etc., packed in neatly enamelled tin Boxes to retail at 1/- and 1/6 each.

JAPANNED TIN BOXES, suitable for Factories, Coal Mines, Emigrants, etc., to retail at 10/6 and upwards.

STRETCHERS at keenest prices.

HALL FORSTER & CO., Ltd.,
NEWCASTLE-ON-TYNE.

PLEATED PAPER BOTTLE CAPS

THE BEST IN QUALITY AND CHEAPEST ON THE MARKET. 20 YEARS' REPUTATION.

Nos. 0, 1, 2, 3, 3b, 10, 20, 30 for Phials 4d. per gross.
" 4, 4b, 40 for 3 to 6 oz. Bottles ... 4½d. "
" 5, 5b, 5½, 50 for 8 to 10 oz. Bottles 5d. "
Nos. 6, 6b, 60 for Pints ... ... 5½d. per gross.
" 39 for Winchester Quarts ... 7d. "
" 8, Long for Wines... ... 9d. "
ELASTIC BANDS: Small, 3d. per gross; Large, 4d. per gross.

Also MANUFACTURERS of DISH and DESSERT PAPERS, HAM FRILLS, PIE COLLARS, SOUFFLET CASES, &c. &c.

WHOLESALE AND EXPORT ONLY

From

DARTER, WILKINSON & CO.,

23, 24 25 Sandland Street and 3, 4, & 5 Gray's Inn Passage

High Holborn, LONDON, W.C.

DAISY TO THE FRONT

Split Heads are oft incurable. May Peace prevail! But Splitting Headaches "DAISY" cures in a few minutes, as all the World now knows.

That's why you should keep "DAISY" to the front: on the counter, and in the window.

"DAISY" and Headache are twin ideas in the public mind—indissolubly associated. When they have headache, they think of—and want—"DAISY."

If you show "DAISY" you will sell it. More and more of it. And every sale you make yields you a substantial profit. You can't afford to let the business pass you.

We will gladly send a supply of smart showcards, large dummies, golden sovereigns, and other novelties, for the window and counter, on request. They will help to draw the "DAISY" customers to your shop.

Send us a postcard whilst you think of it.

DAISY, LTD., Mammoth Works, LEEDS.

ESTABLISHED 1893. *Telegrams: "Daisy Leeds."*

Sandalwood Oil Capsules.

"4 MEDALS" BRAND.

Note—The finest English Sandalwood Oil is alone used, and inquiries from Colonial Houses are always welcome.

30 CAPSULES IN EACH BOX.

Price **16/6** per doz.

N.B.—10 m. in each capsule, put up in metal boxes.

Mr. STEVENSON was for many years a Director of BAISS BROTHERS & STEVENSON, Ltd.

Cod Liver Oil Emulsion

"4 MEDALS" BRAND.

The superiority of our Emulsion is due to the special base used in its manufacture, resulting in a WHITE, CREAMY, PALATABLE and INSEPARABLE preparation readily taken by children.

1880 1914

"COD LIVER OIL EMULSION—The Cod Liver Oil Emulsion is known as the '4 Medals' brand, and **has all the characters of a well-made emulsion.** The packages which we have before us, especially recommended for export, have green capsules, labels in green and brown, and are supplied with corkscrews. A strong point with Messrs. Stevenson is that they are always glad to make any special combination which their customers desire, such as combinations with lecithin, quinine, creosote, and glycerophosphates, and these are supplied at prices only a little above those quoted for ordinary emulsion. The sample of Petroleum Emulsion is **EXCEPTIONALLY WHITE**, and possesses also the fluidity so much desired in this product."—*Chemist and Druggist.*

Favourable Prices given for

COD LIVER OIL, CREOSOTED and PARAFFIN EMULSIONS.

GREAT SUCCESS!

PROTECTED PRICES! GOOD PROFITS!

☞ *We stand by the trade!!!*

INSIST ON

DR FROMBERG'S 'JOINTMENT'

FOR OUTWARD USE

Sole Proprietors: THE MIDLAND DRUG COMPANY, NOTTINGHAM, ENGLAND.

THE GREATEST CURE FOR RHEUMATISM, NEURITIS, etc., KNOWN.

CURES EFFECTED DAILY.

Supplied in 1/1½ boxes; 2/9, 4/6, and 11/- jars.
(Minimum selling prices.)

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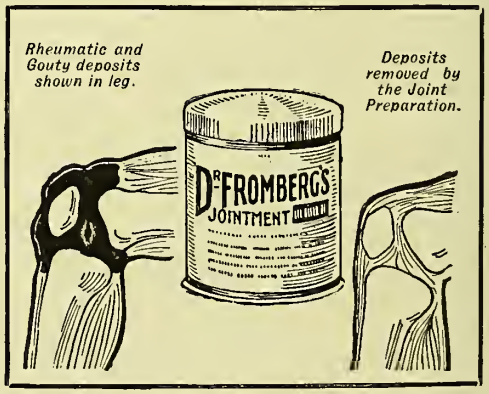

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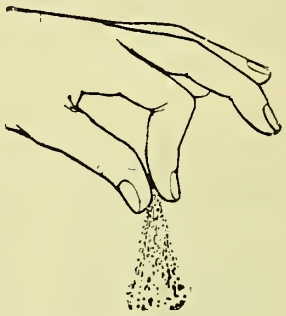

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In the Coloured Supplement.

Coming Events.
Deed of Arrangement.
Gazette.
New Books.
Poisonings.
Portsmouth Pharmacists' Association.
Trade-marks.

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SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

The peculiarity of the last prescription problem was the use of + for "add." See the report on p. 66.

Mr. F. H. Alcock, in a note on glycerinum amyli, relates the history of this product and some of its properties (p. 50).

Dr. A. P. Luff laments the decadence in the art of prescribing, and gives examples of efficacious prescriptions (p. 66).

We are compelled to omit this week several pages of correspondence, but the letters on pp. 79-80 are both interesting and topical.

Representative doctors object to the checking of Insurance prescriptions being made a charge on the Panel and Pharmaceutical Committees. See p. 65.

In "Dispensing Ethics and Practice" we discuss problems arising from Insurance dispensing, particularly questions arising from malpractice and substitution (p. 64).

The Corner for Students "salt" this month contained cadmium sulphate, sodium metarsenite, and potassium bicarbonate. The prizes go to Mr. E. L. Lea (Stockport) and Mr. H. H. Dennison (Heaton). See pp. 51-52.

Panel chemists should read the note on p. 69, in which attention is called to the fact that Tuesday, March 31, is the last day for rendering accounts to Insurance Committees. On the same page the pugnacious type of panel chemist is depicted by artist and rhymer.

News of the Week.

Some decisions under the Australian tariff are reported on p 56.

A registered druggist in Belfast has been fined for compounding a medical prescription (p. 60).

A standard for eucalyptus oil has been fixed for New Zealand, invalids' food also being defined (p. 56).

Heavy fines have been imposed on three men for selling the "Secret Remedies" imitation of Zam-buk (p. 54).

Mr. Joseph Coates (Edinburgh), one of the most esteemed drug-travellers in Scotland, died last week. A sketch of his career is printed on p. 67.

A debate on panel chemists' accounts is taking place in the House of Commons this evening (Thursday), but too late for us to report this week.

A first list of Easter holiday arrangements by manufacturers and wholesalers is printed on p. 68. The Chemist and Druggist offices will be closed from Thursday evening, April 9, to Tuesday morning, April 14. Further particulars will be given next week.

The Chemical Society's annual meeting was held on Thursday. Professor Perkin was re-elected President, and afterwards delivered an address on tautomerism. A report of the business-meeting and of the papers communicated to last week's ordinary meeting are given on p. 75.

Another debate on Insurance Medical Benefit was initiated in the House of Commons by Sir Henry Craik on Monday. Mr. Locker-Lampson again presented the case for panel chemists who are having their bills discounted. He gave instances from The Chemist and Druggist. This and other matters pertaining to panel chemists are reported on p. 61.

The Food and Drugs inspectors in Suffolk are busy. We report a case in which a chemist was summoned for selling syr. ferri phos. c. quin. et strych. which was deficient in quinine. The Liverpool Magistrate was much impressed by the evidence for the defence given in the white-pepper case. Mr. E. J. Parry, Dr. Teed, and Professor Greenish were the witnesses on that side. The reserve sample has been sent to the Government chemist (p. 58).

Trade and Market Matters.

It is not the intention of the Japanese Government to create a monopoly in menthol and mint oil. See the note on p. 79.

Quicksilver, mercurials, ammonia sulphate, and lead nitrate are cheaper. Citric acid, citrates, opium, American peppermint oil, and bergamot oil are among higher products. Santonin will be advanced from April 1 (p. 76).

C

Glycerinum Amyli.

By F. H. Alcock, Ph.C., F.I.C.

THIS preparation was introduced in 1858 by Mr. G. F. Schacht, of Clifton, at the request of Dr. Wm. Budd, of Bristol, who had heard it highly spoken of in Paris. He gave it the name of "plasma," which signifies something formed or moulded. This is not the earliest record of such a preparation, for according to Jacob Bell it was introduced by Mr. James Startin, a celebrated skin-doctor, between 1846 and 1848. In a paper in the "Journal of the Society of Arts," March 7, 1856, Mr. Startin recommended a jelly made with tragacanth, glycerin, lime-water, and rose-water, and another formula of his contained rice starch boiled with water. Mr. Schacht's formula consisted of glycerin 1 oz. and starch 70 grains, heated together at 240° F. until a uniform translucent jelly was obtained. The preparation seems to have met with a mixed reception, and in a paper published October 1866 Mr. Schacht replied to the two main objections which had been urged against his preparation—its hygroscopic character and the tendency to mouldiness. He dismissed the latter as not occurring in his experience, but he acknowledged the difficulties of the former and strove hard to overcome them. Mr. Willmott, in a paper before the Pharmaceutical Society, April 2, 1879, endeavoured to solve the problem by adding water to the formula. He seemed to hold the opinion that if only the glycerin took up a certain quantity of water the product would resist the action of moisture and would retain indefinitely its form and plastic condition, besides being a better application for the skin. Glycerinum amyli became official for the first time in the B.P. 1867, the formula being wheat starch 1 oz., glycerin (s.g. 1.25) 8 oz. A temperature of 240° F. was prescribed, and the product was stated, not quite correctly, under Glycerinum, to contain 1 in 10 by weight. It may be noted as a matter of interest that the s.g. of glycerin in the B.P. 1864 was stated to be 1.26. In the B.P. of 1885 the Willmott suggestion was taken advantage of, and the formula was starch 1 oz., glycerin 5 oz., distilled water 3 oz. Three varieties of starch became official for the first time in the B.P. 1885—wheat, rice, and maize—and the s.g. of the glycerin was still 1.25, with a small percentage of water. The United States Pharmacopœia recommends corn (maize) starch, and mentions a temperature of 284° F. The author's attention was directed to this matter in January, when a small batch was made by two dispensing students. The quantity made was one-tenth of the B.P. quantity, and as the students were not very familiar with the matter it is interesting to note the defects of the official directions. In the B.P. 1898 the formula is starch 1 oz., glycerin (s.g. 1.26) 1½ oz., distilled water 1½ oz., with the laconic direction "mix." No reference is made to the weight of the final product, to temperature, to the kind of starch to be used—an important matter here, as elsewhere, in pharmaceutical operations—to the kind of apparatus, to the method of storing the final product, or to the translucent jelly produced. The U.S.P. recommends the product to be kept in "suitable vessels provided with well-fitting covers." The author suggests the desirability of weighing all the ingredients in making this preparation, for when fractional quantities are made accuracy cannot be ensured by measuring, and it is not unofficial to weigh even water (*vide* Unguentum potassii iodidi, etc.). It is a nice arithmetical exercise for a student to ascertain the weight of 5 fluid drachms and 12 minims of glycerin and that of 72 minims of water. In making this one-tenth batch the temperature rose to 212° F., and the process was complete in from ten to fifteen minutes. The loss was exactly 60 grains. The product was 410.3 grains, and it was with this that experiments were made in order to ascertain the rate of absorption of moisture. The batch was made on January 16, and weighings were taken daily until March 18, with the result that an increase of 123 grains was indicated at the end of the period referred to. The product is very susceptible to heat and cold. With a view to remedying the defect tragacanth, dextrin, and powdered acacia were employed, but in no case was the result satisfactory.

Army Compounding.

AT the meeting of the Wolverhampton Chemists' Association on March 18, Mr. Harold Warner gave an interesting account of army compounding. A compounder joins the Territorial Force as an ordinary recruit, and has to put in the usual number of drills or lectures—forty-two are required the first year, afterwards ten to fifteen, according to rank, annually. If a sergeant, he has to take his turn as orderly sergeant for a week and attend all parades and lectures. The lectures or drills last, or are supposed to last, an hour; the drills are "company" and "stretcher," and the lectures are on first-aid, dressing and bandaging, sanitation, hospital work, etc. An officer in the Medical Corps is a doctor, except the transport officer and quartermaster, who cannot rise above the rank of lieutenant in the Medical Corps. The outstanding feature and attraction of the service is the annual training, which lasts fifteen days, but one need not do more than eight days if there is a reasonable excuse. Camp is usually reached by rail, and a unit of the R.A.M.C. is generally attached to some battalions. About once in four years a R.A.M.C. Brigade camp is arranged, at which the three divisions of the Field Ambulance are brigaded together and not attached to any other company or battalion. Last year such a camp was held at Chatsworth. There is plenty of work, and at times the compounders are quite busy. The camp hospital is indicated in the day by a white flag with a plain red cross, and at night two horizontal hurricane lamps are elevated. The hospital consists of two marquees (one inside the other). The doors are at each end of the tent, thus permitting a clear draught through; the beds are side by side on the side of the tent, and are short trestles about 4 in. high, on which are placed three long boards over which are three cushions and the blanket, pillow, etc., which the patient brings. The staff is changed daily, and consists of a ward-master, a corporal, two orderlies, four fatigue men to do the dirty work; these are usually defaulters. The staff go on duty at 7 A.M., and are responsible for the care of the patients. The compounder is responsible for the care of all instruments and medical stores, paniers, lighting apparatus, etc.; he accompanies the medical officer through the hospital, takes notes of his reports, writing down scripts, etc. A bell-tent almost adjoining the hospital is provided in which the medical stores are kept, and part is set aside for the compounder's use.

The compounder is not required to attend any of the ordinary parades. There is not much actual dispensing, as most of the drugs are in tablet-form, but there are several stock mixtures, such as mist. expect., mist. alba, mist. astringens, and drugs such as spt. æther. nit., tr. camph. co., ol. ricini. Various solutions, such as carbolic acid, hydrarg. perchlor, etc., are always kept ready, as is the steriliser. All instruments must be get-at-able at a minute's notice. One of the privileges of the R.A.M.C. is being able to be in barracks and in a military hospital at some garrison town. In this case the pay allowance is about 1*l.* a week; the duties are much the same as those in an ordinary hospital as regards dispensing and recording temperatures, pulse, and respirations. These are entered on a board at the head of each bed. Diet-sheets require to be sent to the kitchen before ten o'clock. The life in barracks is by no means hard. One of the most onerous duties is getting ready for dress-parade. Sports are encouraged, and football and cricket matches with civilian teams are very popular. Civilian hospital training is quite a new institution, and this year was held in January. It consisted of twelve lectures of two hours each, and included two visits to the bacteriological laboratory. The lectures were by four doctors, the matron, and the sergeant-major, and there was a final examination by the officer commanding. Provided a satisfactory report is obtained, eight days' pay is drawn, and this comes to over 1*l.* Mr. Warner described some route marches, and displayed one of the medicine-paniers.

Mucilage of Starch may be preserved by the addition of oil of cloves.

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus: "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on March Analytical Exercise.

THE powder distributed to students on February 24 contained one part by weight of cadmium sulphate, one part of sodium metarsenite, and eight parts of potassium hydrogen carbonate. The calculated composition of such a mixture is

Cd	4.4
Na	1.8
K	31.3
SO_4	3.7
AsO_2	8.2
CO_3	47.9
H	0.8
H_2O	1.9
	100.0

The powder also contained, as impurities, traces of iron, aluminium, and calcium, and a very slight trace of a chloride.

Samples of the powder were distributed to eighty-five students, and forty reports were submitted for examination. The presence of a carbonate was recognised by all our correspondents. The failures in the detection of the other constituents were :—(*a*) Metallic radicals : cadmium, 23; sodium, 4; potassium, 2. (*b*) Acid radicals : sulphuric, 3; arsenious, 1. Thirteen students who detected the presence of arsenic did not state the form of combination in which it was present, while two reported an arsenate. Nine students failed to observe the evolution of water (water of crystallisation of the cadmium sulphate and water produced by the decomposition of the bicarbonate) when the powder was heated in a dry test-tube.

This exercise was not a difficult one, and, provided that a number of precautions were carefully observed, correct conclusions as to the main constituents of the powder were comparatively easily obtainable, and were arrived at by a larger number of students than usual. At the same time, the exercise was calculated to afford opportunity for the less experienced, the less observant, or the more superficial of our correspondents to fall into a variety of errors in case of their bestowing insufficient attention to the needful precautions, and several of the anticipated mistakes were met with in a considerable proportion of the reports sent in. Guided by their experiences in some of the more recent exercises, numerous students were specially particular, in treating the original hydrochloric-acid solution of the powder with hydrogen sulphide, to see that as little free acid as possible was present, and to have this well diluted with water and the solution then thoroughly saturated, in the cold, with hydrogen sulphide. By this means the precipitation of the arsenic, and of all but the merest trace of the cadmium, was ensured, and two separate causes of subsequent error—failure to detect cadmium and mistaking it for something else—were removed. When the precipitation was carried out without sufficient previous dilution of the acid solution, or when due saturation with hydrogen sulphide was not attained, part or the whole of the cadmium passed into the filtrate, and was liable to be mistaken, later, for some other metallic radical in consequence of the reactions to which it gave rise. In a rather large proportion of cases the precipitation with hydrogen sulphide was evidently incomplete, and had only resulted in the removal of the arsenic from the solutions, since the precipitates obtained were reported completely soluble in ammonium hydrosulphide or in ammonium hydroxide, whereas cadmium sulphide is not dissolved by these reagents, and should have remained as an insoluble residue if it had been present in the precipitates. The failure to obtain any residue of cadmium sulphide at this point was responsible for the eventual failure to detect cadmium in almost every one of the exceedingly numerous instances in which this occurred.

A distinctly unsatisfactory feature regarding the examination of the hydrogen-sulphide precipitate presented itself in a few cases in which students, having observed that the precipitate was yellow, and having proved the presence in it either of arsenic only or of cadmium only, passed on to the other parts of the analysis without making any attempt to ascertain whether or not both were present. The superficial character of such analytical examination has been pointed out frequently in this column, and students have been urged not to assume the absence of all other substances which might produce a certain colour or other change as soon as they have proved the presence of one substance which could give rise to it. This particular type of error is closely akin to that too frequently made by students who describe powders as insoluble in water, or hydrogen-sulphide precipitates as insoluble in ammonium hydrosulphide, because they do not dissolve entirely, and this, although the aqueous filtrate has not been tested to ascertain whether or not it contains anything in solution, or although the ammonium-hydrosulphide extract has not been examined to see if it yields a sulphide precipitate on acidification. The adoption of unwarranted—because unproved—assumptions is probably responsible for more failures in analysis than result from misinterpretation of observed reactions.

The test for phosphates by means of ammonium molybdate was applied to the original powder in the preliminary examination by a good many students. This was not the stage at which the test should have been applied, and the result was apt to be misinterpreted since the arsenite present was liable to be oxidised to arsenate by the free nitric acid in the ammonium-molybdate solution, and this arsenate might then yield the corresponding molybdate precipitate. To avoid all risk of this error, which actually occurred in one or two cases, the molybdate test for phosphates should not be applied until any arsenic, present either as arsenite or as arsenate, has been removed by means of hydrogen sulphide.

Ammonium and the nitric-acid radical having been reported present by more than one correspondent, the tests for these radicals were carefully repeated, but no recognisable indications due to either could be obtained. Again, the water given off on heating the powder in a dry test-tube being commonly reported to have an alkaline reaction (which it should not have had in the absence of ammonium compounds), the experiment was tried of carrying out the heating in a tube into which the powder had been so introduced that no traces of the solid came into contact with the upper portion of the interior, and under these conditions the water condensed near the top of the tube was found to be slightly acid. Hence it would appear that the reaction observed by our correspondents was due to the condensation of the water in contact with small particles of the powder which had adhered to the sides of the tubes, whereby alkaline solutions were produced which turned red litmus-paper blue.

Prizes.

The first prize for the best analysis has been awarded to

Edward L. Lea, The Croft, Gill Bent Road, Cheadle Hulme, Stockport.

The second prize has been awarded to

R. H. Dennison, 23 Cardigan Terrace, Heaton, Newcastle-on-Tyne.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

1. *Correspondents who are unqualified:*

E. L. Lea (1st prize)	97	Onyx	76
R. H. Dennison (2nd prize)	96	Curious	75
George	95	Rare Chemical	75
Tyneside	95	Student	74
A. C. S.	94	Aspirin	72
Nomen	93	En Avant	72
H. W. H.	91	Bucca	68
Zincona	89	Kappa	68
L. Bridges	87	Remos	68
Ozone	87	Virus (Peterborough)	68
Brutus	86	Nil Sine Labore	66
C. W. V.	84	Suffy	63
D. Gregory	81	B. P. C.	62
Ricinus	81	Victory	62
E. Caird	80	Seloe	60
Isca	80	Thistle	60
Wallaby	80	M. G. T.	54
Newrad	78	Myron	49

2. *Correspondents who are qualified:*

Ajax	79	Virus (Prestwich)	75
Oxon	74	Xylem	82

To Correspondents.

E. L. Lea.—Although you examined separately the aqueous extract from the powder and the hydrochloric-acid solution of the residue insoluble in water, no advantage resulted from that procedure in this analysis.

Nomen.—We cannot say with certainty what was the cause of the odour you observed and mistook for that of phosphine when you generated hydrogen in presence of the dissolved powder; but we advise great caution in applying any such test to a substance proved to contain arsenic, in view of the highly poisonous nature of the arsine which is certain to be produced.

Zincona.—The solution—intended to be neutral—to which you added silver nitrate in testing for acid radicals, must have been distinctly acid, otherwise a yellow precipitate of silver arsenite would have appeared.

L. Bridges.—The abundant precipitate of silver chloride which you obtained in testing a solution for acid radicals was due to the hydrochloric acid you had used in preparing the solution.

Ozone.—Your report on the treatment of the hydrogen-sulphide precipitate is much too meagre in so far as the proof of the absence of antimony and tin is concerned: a mere statement of results without a description of methods is not sufficient.

Brutus and Bucca.—You report that the hydrogen-sulphide precipitate did not dissolve in ammonium hydrosulphide, whereas part of it did, while part did not dissolve. Whether this is merely a slovenly mode of expressing that it did not entirely dissolve, or indicates very superficial observation, it should be sedulously avoided. We cannot discern what information regarding the presence or absence of a carbonate or a bicarbonate in the original powder could be obtained by boiling the latter with water and sodium carbonate, filtering, neutralising the filtrate with nitric acid, and adding magnesium sulphate. Can you?

Ricinus.—The reaction with ammonium molybdate which led you to suppose a phosphate was present may have been due to some arsenite not having been removed from the original solution as arsenious sulphide by hydrogen sulphide.

Wallaby.—It was highly inaccurate to describe the powder as insoluble in water, since the greater part of it dissolved easily in that solvent. Compare the first part of the reply to "Brutus and Bucca."

Newrad.—The composition of the powder as ascertained by your analysis does not account for its being incompletely dissolved by water. The arsenites, sulphates, and carbonates of sodium and potassium all dissolve in water pretty readily.

Onyx.—The precipitate you mistook for calcium citrate probably consisted of calcium arsenite. Read also the reply to "Wallaby."

Curious.—The silver-nitrate precipitate which puzzled you consisted of silver arsenite.

Rare Chemical.—You should have tested for the presence of an arsenite, by means of silver nitrate, in a portion of the sodium-carbonate extract made neutral with nitric acid.

Student.—You treated the hydrogen-sulphide precipitate with ammonium hydrosulphide, filtered, and tested the filtrate for metals of the arsenic-group, but you appear to have left the residue (which consisted of cadmium sulphide) unexamined.

Aspirin.—We were unable to obtain any evidence of the presence of zinc or of a nitrite.

En Avant.—You may have produced the arsenate you detected, by boiling the portion of the sodium-carbonate extract to which you added nitric acid.

Remos.—We cannot penetrate the mystery of the reactions which led you to suppose a ferricyanide was present. Examine carefully the behaviour of ferric and ferrous salts with a freshly prepared solution of potassium ferricyanide.

Virus (Peterborough).—Your report on the testing for acid radicals is very incomplete. Apparently the nitric-acid radical and numerous others were not tested for.

Thistle.—Your report is not clear enough to indicate fully how you went astray in examining the hydrogen-sulphide precipitate, and some of the reactions you record could not have taken place without the introduction of foreign matter during the analysis. Read also the reply to "Newrad."

M. G. T.—Your report seems to be incomplete. On the last sheet you sent in (the third) we are instructed to "P.T.O.," but on doing so find no further account of the analysis and no summary of results.

Ajax.—We repeated, with great care, your test for ammonium-compounds, but failed to get any positive result.

Oxon.—Although it would have been desirable to remove the arsenite from the solution to be tested for other acid radicals prior to applying tests for these, we do not think the arsenite interfered seriously with your tests for either tartrate or citrate. The precipitate you obtained in testing for the latter with calcium chloride was, however, almost certainly calcium arsenite.

Virus (Prestwich).—We are at a loss to understand how you obtained a black precipitate with hydrogen sulphide when testing for cadmium in the copper-group, as no such result was obtained in our own analysis.

Xylem.—You are mistaken in supposing that the acidification of the ammonium-hydrosulphide extract from a hydrogen-sulphide precipitate would yield a black precipitate if tin were present. Tin, if present in the solution, would be there as thiostannate, and this, on acidification, would yield a precipitate of stannic sulphide, which is yellow.

The Tournament.

The results of this month's exercise have caused some re-arrangement in the order of the competitors near the top of the list of those who have submitted reports on all the tournament analyses. Chief attention is directed for the moment to the group of students contending for third place, and special interest attaches to the outcome of the final exercise. Appended are the scores of those students who have obtained aggregate marks exceeding 400:

Zincona	458	Virus	413
Xylem	442	Ozone	412
Aspirin	414	Myron	410
Kino	413	Rare Chemical	403

COLLEGE NOTES.

Northern College of Pharmacy.—The new edition of the prospectus of the Northern College of Pharmacy, 100 and 102 Burlington Street, Manchester, contains particulars of the day and evening classes for pharmaceutical examinations conducted at the College. There are included eight engravings of various parts of the premises. The Principal is Mr. E. Gower Bryant, Ph.C., and he is assisted by Mr. Harry Berry, Ph.C., Mr. K. S. Dickinson, and Mr. S. Bryant. The Clayton Scholarship is tenable at this College.

Combined Concert.—The students of the London College of Chemistry and the Westminster College of Pharmacy held a combined smoking-concert at the Gauden Hotel, Clapham, London, S.W., on March 17. Mr. Arthur Kirkland (London College) was in the chair, and there was a good attendance of students. This is the first occasion when the two Colleges have spent the evening together, and the opportunity of companionship was much appreciated. The toasts of "The King" and the two Colleges were drunk during the evening, and a long programme of song and recitation was gone through.

Mr. Chas. Robinson (Secretary of the Bradford Pharmaceutical Committee) has written to the "Bradford Daily Telegraph" denying erroneous statements that have been made regarding the drug-supply. He concludes with the remark, "During the year test prescriptions have been handed in to chemists by the inspectors of the Food and Drugs Act and sent in for analysis."

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. J. B. Woodbridge, ironmonger, Gerrards Cross, has applied to the Bucks County Council for a poison-licence.

At Sandforth, Cheshire, important works are to be opened for rubber manufacture, this being a new industry for the district.

Mr. Lockhart, of the Stafford Hospital, has been appointed to fill the vacancy of dispenser at the Royal Portsmouth Hospital.

The Melksham (Wilts) Urban Council have passed plans for alterations and improvements to the premises of Mr. E. J. Hughes, chemist and druggist.

The off vine-licence attached to the business of Mr. E. R. Cross, Ph.C., 94 Westborough, Scarborough, has been transferred to Mr. F. A. Lund, pharmacist.

Owing to the Insurance Act, Burton-on-Trent Dispensary, which was founded over eighty years ago, is closing. There are about 3,000 members, mainly women and children.

At Grantham on March 12, a horse attached to a trap backed the vehicle through the main window of the local branch of Boots, Ltd. Much damage was done to the stock and fixtures.

The annual meeting of the National Chamber of Trade is to be held at Blackpool from April 17 to April 21. Thirty-six resolutions on various trade subjects have been placed on the agenda for discussion.

Mr. Leo Taylor, F.I.C., 31 Moorgate Street, London, E.C., has been appointed public analyst for the Borough of Southend-on-Sea, at a fee of 10*s*. 6*d*. per formal sample analysed, and 5*s*. for each informal sample.

Fire which broke out on March 20 in the store-room of Mr. Butterfield, chemist and druggist, of South Street, Keighley, resulted in 450*l*. damage being done, of which 50*l*. was to the building. The loss is covered by insurance.

In the window-dressing competition arranged in connection with the Wigan shopping festival, which closed this week, the following chemists were successful competitors in the chemists' class: (1) Messrs. Winstanley & Fairhurst, Market Street; (2) Mr. J. Pennington, Standishgate; (3) Messrs. Phillips & Son, Wallgate.

At the Chemists' Assistants' Association dinner, which takes place on April 2, the following have accepted invitations to be present: Sir Richard Winfrey, M.P.; Mr. James Cantlie, F.R.C.S.; Mr. E. T. Neathercoat; Mr. John D. Marshall; Mr. John Keall; Mr. J. Grier, M.Sc.; and Mr. Chisnell. Further particulars are given in the "Coming Events" column of this issue.

At an inquest at Southwark on March 20 on the body of a stockbroker's clerk named White it was stated that he had received two intravenous injections of salvarsan in St. Mary's Hospital, Paddington. He went back to business, but collapsed in the office and was taken to Guy's Hospital, where he died, according to the medical evidence, from arsenical poisoning. The inquest was adjourned for an analysis of the organs to be made.

Port Sunlight.

The King and Queen on March 25, during their stay in Cheshire, visited the works and model town of Messrs. Lever Bros., Ltd., Port Sunlight. Sir William Lever, Bart., received their Majesties and a tour was made of the works. In the girls' dining-room a vast company sang and with small squares of bunting suddenly formed themselves into a huge living Union Jack, which was very effectively seen from the platform. At the Queen's request a series of dances is to be organised for the girls who took part in the display. Their Majesties afterwards visited Hulme Hall, and there, pressing an electric button, laid the foundation-stone of the new art gallery which Sir William Lever is building to house his magnificent art treasures for the use of the public. The King and Queen afterwards left by motor-car for Birkenhead.

The Public Weal.

The following gentlemen connected with the drug-trade have been nominated for election in their respective Urban District Councils:

Mr. W. B. Cartwright, manufacturing chemist, Rawdon.
Mr. J. B. Davies, chemist, Bromyard.
Mr. J. E. Enderby, chemist and druggist, Horncastle.
Mr. H. Gibson, chemist, 48 Madoc Street, Llandudno.
Mr. W. D. Hall, chemist and druggist, Skegness.
Mr. G. F. Hird, pharmacist, Northallerton.
Mr. Julian Horrell, Ph.C., Broadstairs.
Mr. C. Morrow, Ph.C., Hornsea.
Mr. J. L. Naylor, pharmacist, 219 Station Road, Bamber Bridge, Walton-le-Dale.
Mr. L Newbigin, Ph.C., Fenkle Street, Alnwick.
Mr. E. Peck, chemist, East Dereham.
Mr. E. A. Proctor, chemist and druggist, Downham Market.
Mr. R. J. Rutherford, chemist, Newbiggin.
Mr. W. Spyvee, chemist and druggist, Sleaford.
Mr. C. J. Taylor, Ph.C., High Street, Cheriton, Kent.
Mr. T. W. Townley, Ph.C., Keswick.
Mr. J. W. Williams, pharmacist, Wrexham Street, Mold.
Mr. H. Wolstencroft, manufacturing chemist, Chadderton, Oldham.

Mr. J. H. Collins, chemist and druggist, Mansfield, has been appointed an overseer for the poor.

Mr. W. Barlow, chemist and druggist, has been elected unopposed to the Pocklington (Yorks) Urban Council.

Alderman J. R. Birkett, chemist and druggist, of Morecambe, has been appointed an overseer of the poor for the borough.

Mr. W. H. Wandless, chemist and druggist, has been elected unopposed to a casual vacancy on the Whitehaven Town Council.

Mr. T. C. Lamb, J.P., Ph.C., Chatham, owing to advancing age is not seeking re-election to the Medway Board of Guardians, of which he has been a member some twenty-five years. Mr. Lamb recently retired from the Chatham Town Council. He is an ex-Mayor of the town.

Guardians' Doings.

The Wandsworth Guardians have decided to rent a non-basement house to which the Battersea Park Road dispensary will be transferred. The lease of the present premises expires shortly, while the Visiting Committee reports that they are "totally unfit," the dispenser working underground in the basement, and great damage to the drugs being done by damp.

The Southwark Guardians on March 20 had before them a letter from Mr. W. A. Knight, dispenser at the infirmary, enclosing 5*s*. Insurance sick benefit in respect of his absence through illness, and asking for consideration of his case with a view to the amount being returned to him. The Guardians decided that there was no reason to depart from their order of March 1913, that officers in receipt of full remuneration while ill shall pay the Guardians such sickness benefit as they receive.

Birmingham Notes.

Thermos flasks are the order of the day in window-dressing, an unusually good display being at Messrs. Palmer's, Temple Row.

The Athletic Section of the Midland Pharmaceutical Association have secured a ground at King's Heath for cricket, tennis, and bowls during the coming season.

A very successful dinner was held at the White Horse Hotel, Birmingham, on March 19, to meet Dr. Rudolph Messel, F.R.S., President of the Society of Chemical Industry. The company numbered over one hundred.

The National Cash Register Co., Ltd., have an office displaying their goods in New Street near the King Edward's School, and last week at that office an interesting lecture was given on "Efficiency in Business," Dr. J. F. Hall-Edwards being in the chair.

At the Birmingham Assizes, before Mr. Justice Lush, on March 21, Dr. Gilbert Southall, son of Mr. Alfred Southall, F.C.S., secured damages, 250*l*. for himself and

25*l.* each for his wife and daughter, and costs, against Mr. Louis Cassell, a merchant, of Edgbaston, for personal injuries sustained by them in consequence of the negligent driving of a motor-car by the defendant. The doctor sustained a broken collar-bone which incapacitated him from his professional practice for five weeks.

Sheffield Notes.

A notice sent out in the form of a hanging card by Messrs. Exell Bros., wholesale and retail chemists, Ellesmere Road, announces that in future they will deliver by motor-carriers three times daily—11 A.M., 3 P.M., and 5.30 P.M.—to all parts of the city. Some delay took place in the arrangements for this service through an accident, in which the driver was injured, fortunately not seriously, and the car rather badly damaged.

The Brightside and Carbrook Co-operative Society have decided to erect a new central store, and it is understood that negotiations are being made to procure the site of the old Royal Hotel in Exchange Street. Until recently Sheffield pharmacists have had very little competition from co-operative trading, the only drug department of this nature (purchased from Mr. Sidney Eyre six months ago) being at 164 Infirmary Road and not very central or extensive. In July 1913 the stock held was 251*l.* 3*s.* 11*d.*, and in January 1914 358*l.* 7*s.* 10*d.* Sales amounted to 415*l.* 5*s.* 10*d.*, and transfers to other branches 140*l.* 13*s.* 11*d.*, showing a net profit of 128*l.* 16*s.* 9*d.* for the six months.

"Sam-buci" for Zam-buk.

Before the Magistrates at Wellingborough (Northamptonshire) on March 24, Walter Henry Cousens (20), West Street Leicester; Bertram Edwin Bevans (58), Millstone Lane, Leicester; and Henry Wilkins, 3 Albert Street, Leicester, appeared in connection with the sale of an imitation of Zam-buk. The charge against Cousens, who told the police he was the managing director of the "Sam-buci" Company, was that of obtaining 3*d.* by false pretences; against Bevans there was a similar charge for two offences, and against Wilkins the charge of attempting to obtain money by false pretences. Mr. J. C. Parker (Wellingborough) prosecuted. Evidence was given by those who had bought from the prisoners and by others upon whom they had called without effecting any sale. It showed that the men represented the ointment and soap as those made by the "Zam-buk" company, and called them "Zam-buk" soap and "Zam-buk" ointment. Samuel Wm. Fitzgerald, supervising chemist to Messrs. Fulford, Ltd., Leeds, said the soap and ointment bore a superficial resemblance to "Zam-buk," but they were not made from the same formulæ. The prisoners, who were tried separately, argued, in their defence, that they had not claimed the goods to be "Zam-buk," but "Sam-buci" (pronounced "Sam-bucky"). They said the soap was Dr. Mackenzie's medicinal soap, and the ointment they did not sell at all, but gave away with the tablets of soap. They, with two others, were the "Sam-buci" Company. Bevans stated that the ointment was made from the formula for "Zam-buk" given in the British Medical Association's book "Secret Remedies," but they did not call it "Zam-buk." Mr. Fitzgerald remarked that the British Medical Association's formula for "Zam-buk" is inaccurate, and the prisoner replied that was calling the British Medical Association "liars." Cousens was fined five guineas, or six weeks' imprisonment with hard labour; Bevans five guineas in each of the two cases, or the same term of imprisonment; and Wilkins five guineas, or one month's imprisonment with hard labour.

From Various Courts.

At Birmingham on March 18, A. E. Walton (25) was committed for trial on a charge of breaking into the premises of Boots, Ltd., Broad Street, Birmingham (*C. & D.*, March 21, p. 36).

At North London on March 23, Annie Green (52), Islington, was discharged after being told by the Magistrate she must not go from door to door offering fancy soap for sale without a pedlar's licence.

At Newcastle-under-Lyme on March 18, Edward Welch was sentenced to a month's hard labour for stealing tooth-powder and a tablet of soap from the shop of Oxen's, Ltd., chemists, High Street, Newcastle.

At the Central Criminal Court on March 25, Archibald Christopher Triggs (35), described as a chemist's assistant, was sentenced by Mr. Justice Atkin to fifteen months' hard labour for performing an illegal operation upon Alice Amelia Hansen (*C. & D.*, March 21, p. 36). A charge of murder was withdrawn.

At the Westminster Police Court on March 23, Benjamin Williamson Brims, commercial traveller and chemist, was remanded on a charge of "feloniously and maliciously demanding the sum of 50*l.* with menaces and without reasonable and probable cause" from a lady described as Josephine Princess of Thurn and Taxis (*C. & D.*, February 28, p. 59).

At Plymouth Police Court on March 23, Arthur Lewis, a young chemist's assistant, 4 Auburn Place, was charged with embezzling on March 20 the sum of 7*s.*, moneys received by him for his employers, Messrs. Balkwill & Co., chemists, 106 Old Town Street, Plymouth, and further with stealing from his employers a large number of articles. A large table in the Court-room was literally covered with bottles, jars, brushes, packets, etc., usually associated with a chemist's shop. The total value was 6*l.* 10*s.* 1½*d.* During evidence of arrest it was stated that Lewis had not been with the firm three weeks, but during that time he had succeeded in purloining the whole of the articles produced, about 130, and also in embezzling money. There might still be other charges against him. The case was adjourned on representation from accused that his mother was ill. This statement was disproved on the following day. Accused was remanded in custody until March 30. Mr. Skardon asked that the money found in the possession of Lewis be returned to him for the purposes of his defence. Mr. Square objected on behalf of the prosecution, pointing out that money had been embezzled and goods stolen. Some of the missing articles had been recovered, but it was not known where the matter would end. The Magistrates disallowed the application.

At the Central Criminal Court on March 24, William Grant Hendrie (65), described as chemist's assistant, pleaded guilty to publishing a defamatory libel concerning Mr. Archer Mowbray Upton, solicitor, and Clerk to the Society of Apothecaries (*C. & D.*, 1913, II., 903). Mr. Huntly Jenkins, who appeared for the prosecution, said the libels were as bad as they could be. They were in the form of postcards. One read, "Lord Mayor to investigate Apothecaries' Hall trumped-up scandal. Army contract frauds. W. G. Hendrie to petition Lord Mayor to order a public inquiry, and also into malpractices of their solicitor, Archer Mowbray Upton." Another card described Mr. Upton as "The greatest fraud the world has ever known." Counsel said it was no use binding the defendant over; this course had already been adopted four times. Mr. Bray, in mitigation, said the libels had nothing whatever to do with the grievance that obsessed the defendant since 1892. Accused when employed by the Society of Apothecaries seemed to have formed the opinion that the Society were issuing drugs not of the proper quality. Doubtless there was nothing in the charge, but it seemed to have fastened on him and seized him like a mania. The Society had dismissed him, but generously offered him an allowance on condition that he should withdraw the allegations and sign a statement that they were false. He refused to do this, with the result that, instead of being in comfort, he was now broken in health physically and mentally. Dr. Dyer, medical officer at Brixton Prison, said defendant appeared to be suffering from softening of the brain. The Recorder postponed sentence until the next sessions, and ordered the defendant to be kept in custody until that time. If he could then find a surety in 50*l.* he would be released.

Norwegian Chemicals.—A company has been formed at Christiania under the title of "Fredrikstad Elektrokemiske Fabriker," with a capital of about 20,000*l.*, to manufacture metallic sodium and chlorate of potash by a process not hitherto employed in Scandinavia.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Messrs. Adamson & Co., chemists, Enniskillen, have put on the market a powder for curing the disease in cattle known as the "white scour."

Mr. W. R. Haddock has been appointed agent in Ireland for Messrs. G. B. Kent & Sons, Ltd., brush-manufacturers, Farringdon Road, London, E.C.

At the annual meeting of Berry Street Presbyterian Church, Belfast, on March 20, an illuminated address was presented to Mr. W. J. Rankin, formerly Secretary of the Chemists' and Druggists' Society of Ireland, on his retirement as superintendent of the Sunday School after thirty-two years' service.

Drugs and Surgical Appliances Contracts.

The following additional tenders have been accepted by Boards of Guardians for the supply of medicines and surgical appliances for the ensuing year:

—	Drugs.	Surgical Appliances
Abbeyleix ...	Boileau & Boyd, 28¾%	Same contractors, 33⅓%
Ballinrobe ...	Boileau & Boyd, 28¾%	Same contractors, 35½%
Ballymahon ...	Boileau & Boyd, 28¾%	Same contractors, 33⅓%
Ballymoney ...	Boileau & Boyd, 28¾%	S. Connor & Sons, 35%
Castleblayney	Boileau & Boyd, 27½%	S. Connor & Sons, 34%
Celbridge ...	Boileau & Boyd, 28¾%	Fannin & Co., 33⅓%
Claremorris ...	Boileau & Boyd	Adamson & Co.
Clonakilty ...	Cork Chemical and Drug Co., 28%	Same contractors, 33⅓%
Clones	Boileau & Boyd	S. Connor & Sons
Cookstown ...	Boileau & Boyd, 28¾%	Same contractors, 35½%
Cootehill ...	Boileau & Boyd, 28¾%	Same contractors, 30%
Croom	Boileau & Boyd, 28¾%	Fannin & Co., 33⅓%
Kildysart ...	Boileau & Boyd, 25½%	Fannin & Co., 31%
Killala	Boileau & Boyd, 25½%	Adamson & Co., 36¼%
Magherafelt ...	Boileau & Boyd, 28¾%	Same contractors 36¼%
Scariff	Boileau & Boyd, 27½%	Same contractors. 33⅓%
Skull	Cork Chemical and Drug Co., 25%	Same contractors, 33¼%
Sligo	Boyers & Co., 33½%	Same contractors, 25%
Strokestown ...	Boileau & Boyd, 22½%	Same contractors, 33⅓%
Urlingford ...	Boileau & Boyd, 27½%	Fannin & Co., 33⅓%
Youghal ...	Cork Chemical and Drug Co., 25%	Fannin & Co., 33⅓%

At Clonmel the Guardians desire to give the contract for surgical appliances to Messrs. Boileau & Boyd, as well as the drug-contract. It appears, however, that Messrs. S. Connor & Sons, Newry, sent in a tender slightly lower than that of the first-named firm, and the Local Government Board consider that the Newry firm's offer should be accepted. The Guardians hold that it is more convenient for them that both contracts should be held by the same contractor. At Youghal, where all the drug-tenders were at 25 per cent. discount, the old contractor obtained the contract, although there were allegations made of delay in executing orders.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Councillor W. Smart, chemist and druggist, Buckhaven, Fife, has been elected a member of the Wemyss School Board.

Mr. William Watt, chemist and druggist, has taken over the pharmacy of Mr. R. W. Dunn, 1 Chattan Place, Aberdeen.

The Chemists' Friendly Society and Mr. William McCallum, the manager, were the subject of an appreciative notice in the "Glasgow Evening Citizen" of March 21.

Edinburgh.

Signs of an early spring are giving a fillip to the sale of photographic materials.

The trustees of the late John Robertson, chemist and druggist, 24 North-West Circus Place, Edinburgh, intimate that the business is now carried on by Mr. W. W. Spence, chemist and druggist, Linlithgow, under the style of John Robertson & Co.

Mr. D. B. Dott, F.R.S.E., presided at the annual meeting of the Edinburgh Royal High School Club in Edinburgh on March 19. In the evening the annual dinner of the Club was held in the Caledonian Station Hotel, when Professor James Geikie, F.R.S., presided.

The apparent errors in pricing are seemingly due to forgetfulness in regard to domiciliary scripts, etc. Some mistakes are: Charging more than ½*d.* per ʒj. for tr. strophanth., 1885; charging more than 1*d.* for sodii salicyl. ℈viij. or ʒiij.; and more than 1*d.* for ammon. brom. ʒiij.

Sir William Turner, ex-President of the General Medical Council, was born in Lancaster, where recently a marble tablet in the Wesleyan Schools, Friar Street, was unveiled, recording:

"In a house on the site of this building was born on the 7th day of January, 1832, Sir William Turner, K.C.B., F.R.S., D.Sc., LL.D., D.C.L., Knight of the Royal Prussian Order Pour-le-Mérite, Professor in and Principal and Vice-Chancellor of the Edinburgh University."

A rival tablet, however, has now been put up lower down the street over No. 7 Friar Street, with the same inscription as the above, except that the first line reads, "In this house was born, etc., Sir William Turner." Sir William himself is the authority for the first statement as to the place of his birth, and an 1832 lease of No. 7 is the source of the rival claim.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

Dr. Prafulla Chandra Ray, C.I.E., F.C.S., has been appointed to the Sir Taraknath Palit professorship of chemistry in the Presidency College, Calcutta.

Ganja in Ceylon.—The Ceylon "Gazette" of February 18 contains three Excise notifications about ganja and bhang. The first declares that the terms "ganja" and "bhang" shall be deemed to include every part of the hemp-plant (*Cannabis sativa* or *C. indica*). The other two notifications prohibit the import or export as well as possession of ganja, bhang, and every preparation and admixture of the same and every intoxicating drink or substance prepared from any part of the hemp-plant.

Sending Cocaine by Post.—The draft of an ordinance to further amend "The Ceylon Post Office Ordinance, 1908," has been published in the "Ceylon Gazette." In the draft ordinance amending "The Excise Ordinance, 1912," the sending by post of cocaine is prohibited, but by the present draft ordinance it is sought to give power to the Governor in Council to exempt any medicinal preparation containing cocaine from the provisions of the ordinance. Sub-sections (4) and (5) of Section 26 have also been amended in order to enforce this prohibition.

The late Mr. Cocking, whose death we announced last week, was born in London in 1845. When seven years old he went with his parents to Australia, and in 1868 he settled in Japan, making a perilous passage of 135 days in a tea-clipper owned by himself. In addition to being a general, chemical, and drug merchant, he was the pioneer of the menthol and mint-oil trade. He also introduced the manufacture of soap in Japan, and erected factories. Up to 1894, says the "Japan Gazette," he controlled the bulk of the chemical, drug, and photographic-material trade in Japan. After he retired from business Mr. Cocking devoted himself to the fine arts, of which his Japanese collection is said to be unique, many objects (paintings, etc.) being described as of priceless value. He was married to a Japanese lady, Miyata Riki, and had no family. He was buried according to Buddhist rites on February 4.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

The Commonwealth.

Common Interests or dangers are leading to a desire for more intercourse between the medical profession and pharmacists. The conference held early in February between the Federal Committee of the British Medical Association and representatives of the Inter-State National Insurance Committee is an illustration of this. In New Zealand the President of the Pharmacy Board was made an honorary member of the Australasian Medical Congress, which met in Auckland on February 9. Further, a medical practitioner in a suburb of Melbourne has suggested that it would lead to mutual advantage if the medical practitioners and the pharmacists were to meet now and again for intercourse.

Tariff Revision.—At the meeting of the Inter-State Commission at Melbourne on February 3 the duty on brushes was considered. H. G. Gibaud, as a witness, mentioned that Japanese nail-brushes are landed in Australia at 3*s*. 1*d*. per doz., and if made in Australia would cost 5*s*. a doz. for labour alone. Japanese hair-brushes are imported for 4*s*. 6*d*. a doz., but would cost 10*s*. per doz. for labour alone. Even 100 per cent. duty would not allow Australian makers to compete with the Japanese goods. George Goodwin, manager of the Excelsior brush-works, said that fine-set hair-brushes could be manufactured in Australia at a profit at 45*s*. per doz. The same brush could be manufactured and placed free on board in England at 22*s*. 6*d*. a doz. Ernest F. Taylor favoured a reduction in duty on paint-brushes, and that toilet-brushes should come in free. The present duty mainly favours cheap goods from Germany and Japan. If a cheap brush is wanted it is impossible to get an English one because of the 25 per cent. duty. Tooth-brushes require more preference—say, 20 per cent. Japan is sending them into Australia in immense numbers. A hair-brush priced 2*s*. 6*d*. f.o.b. London, after allowing 25 per cent. for wholesale profit, 50 per cent. for retail profit, and 37½ per cent. for landing charges, costs the consumer in Australia 6*s*. 6*d*.

New Zealand.

Regulations under the Sale of Food and Drugs Act, 1908, have been issued by the Department of Public Health in a pamphlet of forty-eight pages. In the regulation regarding invalids' food a new requirement is that "In the case of a food described as or purporting to be suitable for persons suffering from diabetes, the proportion per centum of carbohydrate (starch, sugar, etc.) present must be added." The standard for eucalyptus oil is as follows :

Eucalyptus oil prepared for internal use by man shall be the colourless or pale yellow oil distilled from the leaves of various species of eucalyptus, subsequently rectified, and possessing a characteristic aromatic odour and pungent cooling taste. Its specific gravity at a temperature of 60° F. shall be from 0.910 to 0.930. It shall contain not less than fifty parts per centum of eucalyptol (cineol), as determined by the phosphoric-acid method; mixed with one-third of its volume of phosphoric acid of specific gravity 1.75, it shall quickly become semi-solid. It shall be soluble in three volumes of 70-per-centum alcohol, and its refractive index at 60° F. shall be below 1.4800.

The provision regarding labelling is :

There shall be written on or attached to every package which contains eucalyptus oil prepared for internal use by man a statement or label on which shall be written, in sans-serif capitals of not less size than six-point face measurement, the words "For internal use." No person shall sell any package containing eucalyptus oil in respect of which the provisions of this regulation have not been complied with.

Victoria.

P.A.T.A.—The Proprietary Articles Trade Association of Victoria, which has been hibernating since 1908, has revived. Alterations have been made in the articles of association, which were agreed to at a meeting held on January 6 in Melbourne. The Secretary is Mr. A. L. J. Peters, 40 William Street, Melbourne.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Cape Colony.

P.A.T.A.—Mr. E. Blake-Jardine, the Organising Secretary of the P.A.T.A., arrived in Kimberley at the end of February, and at a meeting of chemists delivered an address explaining the constitution and aims of the Association. He expressed himself well satisfied with the support he obtained, and left the new branch of the P.A.T.A. under the care of a representative local committee.

Personal.—Mr. W. Gasson, F.C.S., has been elected to represent Kimberley in the Cape Provincial Council. Mr. Gasson, as the Mayor pointed out in nominating him, "is eminently qualified for the position, and undoubtedly possesses the entire confidence of all sections of the community." Mr. Gasson entered public life some years ago, and was chosen as Mayor for two successive years. This position he filled with conspicuous ability, and there is no doubt (writes a Kimberley correspondent) that he will fill with advantage the wider and more important sphere of public service. As the Cape Provincial Council has considerable administrative power, the drug-trade are to be congratulated in having a representative who is *au fait* with all legislation pertaining to the business, and who will always be available should occasion arise.

Natal.

Business has fallen off slightly since Christmas, this being attributed to the late strike and to the general depression in trade which exists at this period of the year.

Business Change.—Messrs. Oliff Bros., chemists, West Street, Durban, have decided to discontinue the retail business which they took over several years ago from Messrs. Turner & Co. They accordingly closed down on February 28, and moved their wholesale department to Hermitage Street.

Personal.—Mr. J. W. Cooper, of the Musgrave Road Pharmacy, Durban, returned from England by the *Balmoral Castle* on February 15. His trip to the homeland of nine months' duration was taken for the purpose of finishing his optical course. He took his D.B.O.A. some years ago, and has now succeeded in obtaining the F.B.O.A. Mr. Cooper has opened an optical business in West Street, Durban, and it is to be hoped he will be successful in his new venture. His pharmacy will be carried on under the management of Mr. Mitchell.—Mr. King, of Messrs. Allen & Hanburys, has just returned from a business trip round Natal, and reports good business.—We have had a visit (writes our Durban correspondent) from Mr. Harrison, of Harrison's Pomade fame, who is touring South Africa on pleasure. He is to visit Victoria Falls while in the country.

Transvaal.

Sodium-carbonate Deposits.—H.M. Trade Commissioner for South Africa reports in the "Board of Trade Journal" that, according to information received from the Commissioner of Customs and Excise at Pretoria, a company has recently been formed for the purpose of working a valuable deposit of crude carbonate of soda, situated about twenty-five miles from Pretoria. Some 3,000 tons of the soda has already been mined and sold in Johannesburg, where it is largely used in the mines for preventing the lime-incrustation of water-pipes. The company has also a complete plant at Ophirton, Johannesburg, for the manufacture of washing-soda with a capacity of about ten tons per day.

Contracts.

At a recent meeting of the Manufacturers' Section of the London Chamber of Commerce the following resolution was passed :

"That this meeting of manufacturers, representative of their class throughout the whole of the United Kingdom, including contractors for the supply of goods to the Government Departments, municipal and other public authorities, corporations, railway and shipping companies and combines, and the larger buyers in general, is of opinion that in many instances certain of the terms and conditions imposed upon the supplier are arbitrary, unnecessary, and unfair, and, while being unjust to the contractor, are, in effect, often distinctly prejudicial to the interests of the other contracting party. It therefore declares its conviction that such ill-considered conditions should no longer be passively accepted, and resolves that a committee be appointed (with power to add to their number) to fully investigate the matter and to submit to a meeting, to be convened later, its views as to the modifications to be pressed for, the means which should be employed to place before all concerned the considered conclusions which may be arrived at, and the steps which should be taken to secure compliance with the same in any quarters where opposition may be encountered."

Contracts Settled.

Since our issue of March 21 we have been notified of the settlement of contracts, as under :

Alresford (Hants) Guardians.—Trimming & Co., for chemical requisites and appliances.

Battersea Borough Council.—The Sanitas Co., Ltd., for an annual supply of carbolic acid, carbolic soap, Sanitas, Sanitas bactox, Sanitas okol, roll sulphur, formalin tablets, formalin and pine blocks; Newton, Chambers & Co., Ltd., for izal.

Blean Rural Council.—Mr. A. Lander, Ph.C., Canterbury, for disinfectants.

Boston Guardians.—Mr. A. Mitchell, appointed chemist. Mr. T. B. J. Booker, pharmacist, for quinine at 1*s.* 7½*d.* per oz.

Brentford Guardians.—Mr. C. H. Humble, Brentford, for chemicals, antitoxin, and izal (40-gal. cask).

Brightlinsea Urban District Council.—The existing contract with Mr. P. G. Curtis for disinfectants has been extended a further twelve months.

Brownhills Urban Council.—Brownhills Chemical-works, for disinfectants.

Coventry Guardians.—Mr. A. H. Newton, Ph.C., appointed chemist for six months; Wyleys, Ltd., for a year's drug-supply; Robinson & Sons, Ltd., Chesterfield, for an annual supply of dressings.

Cranbrook Guardians.—Mr. A. W. Hudson, chemist, Cranbrook, for medical appliances.

Croydon Guardians.—Bovril, Ltd., and Liebig's Extract of Meat Co., Ltd., for meat extracts.

Dover Guardians.—Mr. Lewis Thompson, chemist and druggist, Dover, for chemicals.

Great Yarmouth Guardians.—Mr. T. J. Woodcock, pharmacist, for chemists' goods.

Greenwich Guardians.—S. Maw, Son & Sons, for surgical dressings.

Hackney Borough Council.—For annual supplies: Savannah Chemical Co., Ltd., for clear carbolic acid, at 10*d.* per gal.; Adcocks, Highbury, N., and Forbes, Abbot & Lennard, King William Street, E.C., for carbolic-acid powder, at 2*l.* 8*s.* 11*d.* per ton.

Hastings Guardians.—Mr. J. G. Richards, chemist, for disinfectants.

Hendon Guardians.—Corbyn, Stacey & Co., Ltd., for drugs.

Herne Bay Urban Council.—McDougall Bros., for disinfectants.

Holbeck Guardians.—Reynolds & Branson, Ltd., Leeds, for the supply of drugs during the ensuing twelve months.

Hollingbourne Guardians.—Mr. F. J. Oliver, chemist, Maidstone, for drugs.

Holsworthy Guardians.—Mr. D. W. Turner, chemist, for cod-liver oil.

Hull Guardians.—Asbestos and Rubber Co., Ltd., Humber Rubber and Engineers' Supply, Ltd., and Bell's United Asbestos Co., for rubber goods; Sayers, Silcox & Cuzner, for surgical appliances.

Leeds Guardians.—Goodall, Backhouse & Co., for the supply of drugs during the ensuing twelve months.

Lewisham Guardians.—For annual supplies: Willows, Francis, Butler & Thompson, Ltd., for drugs; S. Maw, Son & Sons, surgical appliances and instruments; Galen Manufacturing Co., Ltd., for surgical dressings and druggists' sundries; Bovril, Ltd., for meat extract; Heydon & Co., Ltd., for Heydon's disinfectant, etc.; Pryke & Palmer, for Sanitas, Macdougall's, and Lawes' disinfectants, etc.; Hospitals and General Contracts Co., Ltd., for 'Pluviusin" (first quality) waterproof sheeting.

Liverpool Select Vestry.—Evans Sons Lescher & Webb, Ltd., for the twelve months' supply of drugs at 36½ per cent. off schedule prices.

London County Council.—Supplies to asylums: Drugs, Thos. Hodgkinson, Prestons & King, at 49¼ per cent. off catalogue prices; druggists' sundries, Burgoyne, Burbidges & Co., 26 per cent. off catalogue prices; photographic materials, John J. Griffin & Sons, Ltd., 55*l.* 10*s.* 6*d.*; disinfectants, Middleton Bros. and Jeyes' Sanitary Compounds Co., Ltd.

Lowestoft Guardians.—Mr. F. A. Hanworth, pharmacist, Oulton Broad, for chemists' goods.

Medway Guardians.—For six months' supplies: W. K. Hearn, Chatham, Jeyes' sanitary fluid; J. Creasey & Son, Rochester, sulphur candles, 1*l.* 9*s.* 11*d.* per gross; R. Lane & Son, for toilet hair-brushes at 1*l.* 15*s.* 6*d.* per doz.; J. Creasey & Son, Rochester, for toilet hair-brushes, 1*l.* 15*s.* 6*d.* per doz.; flesh-brushes, 1*l.* 3*s.* 6*d.*; and tooth-brushes, 2*s.* 6*d.*; Primrose soap, 1*l.* 4*s.* 6*d.* per cwt.

Metropolitan Asylums Board.—The Board has decided to extend the current contract with The British Drug Houses, Ltd., for a further period of three months, pending the settlement of certain questions concerning future contracts for the supply of drugs.

Mytholmroyd Urban District Council.—Killgerm Co., Ltd., for Killgerm fluid at 2*s.* 6*d.* per gal., and in 8-oz. bottles at 46*s.* per gross; Killgerm powder (1-cwt. bags), 4*l.* 10*s.* per ton; 15-per-cent. carbolic-acid powder (1-cwt. bags), 4*l.* per ton, and in 1-lb. packets at 1*l.* 1*s.* per gross.

Northampton Guardians.—Mr. R. F. Wright appointed chemist

Peterborough Guardians.—Mr. H. E. Noble, chemist, for drugs, etc., during the ensuing six months.

Portsmouth Guardians.—Manners & Hopkinson, London, for drugs at 37½ per cent. off listed prices; T. J. Smith & Nephew, Hull, for lint, wool, etc.; McDougall Bros., Manchester, for disinfecting-fluid.

Retford Guardians.—Mr. E. R. Pater, Ph.C., appointed chemist for a year.

Richmond Guardians.—Corbyn, Stacey & Co., Ltd., for a six months' supply of drugs at 26*l.* 19*s.* 10*d.*

Romford Rural District Council.—The Sanitas Co., Ltd., for an annual supply of disinfectants.

Strood (Kent) Guardians.—Mr. W. E. Clarke, chemist appointed for the ensuing six months.

Trowbridge and Melksham Guardians.—Mr. E. J. Hughes, pharmacist, Melksham, for chemists' sundries.

Upton-on-Severn Guardians.—Mr. H. J. Aubrey, chemist for drugs.

Walthamstow Urban District Council.—For annual supplies: Burt, Boulton & Haywood, Ltd., carbolic acid and permanganate of potash crystals; Sanitas Co., Ltd., special crude Sanitas, formic sulphugators, sulphur cakes or candles, eucalyptus oil, and formalin tablets; Messrs. Adcocks, formalin; E. Cook & Co., Ltd., co-fectant and co-fectant soaps; Pearson's Antiseptic Co., Ltd., hycol; Everett's Stores, Ltd., nail-brushes, disinfectant-powder, methylated spirit, borax, soda, toilet-rolls, borax-powder, tooth-brushes dressing combs and brushes; F. R. Lyon, hair-brushes, crude Sanitas, Scrubb's ammonia, spirit of salt, Pear's unscented soap, nail-brushes; Pryke & Palmer, toilet-rolls and carbolic soap.

Wandsworth Guardians.—Hodgkinson, Preston & King, contract for drugs renewed at discounts of 30, 15, 25, and 32½ per cent. off schedule and list prices; S. Maw, Son & Sons, for surgical instruments at 419*l.* and medicine-bottles at 199*l.*; T. J. Smith & Nephew, for surgical dressings at 850*l.* Outdoor dispensers: *Clapham District*, Mr. Williamson, Mann's Drug-stores, 31 Clapham High Street, 40*l.*; *Tooting*, Watson & Co., Ltd., 100 Mitcham Road and 14 Furzedown Market, 36*l.*; *Wandsworth (No. 1 District)*, Ennes & Co., 91 High Street, 72*l.*; *Wandsworth (No. 2 District)*, A. H. Dee, 274 Earlsfield Road, 58*l.*

Willesden Guardians.—S. Maw, Son & Sons, for druggists' sundries; Duncan, Flockhart & Co., for drugs.

Wolverhampton Guardians.—The British Drug Houses, Ltd., for the supply of drugs to the workhouse at 52*l.* 1*s.* 4*d.*: Corbyn, Stacey & Co., Ltd., for drugs for the out-relief dispensary at 27*l.* 7*s.* 7½*d.*: and Robinson & Sons, Ltd., Chesterfield, for surgical dressings for workhouse cottage homes and out-relief dispensary at 48*l.* 1*s.* 2*d.*

Worcester Union.—Messrs. Anderson & Virgo, T. Lunn, and Todd & Welch were appointed district chemists.

York Guardians.—Mr. F. A. Newey, chemist, for disinfectants and disinfectant-soap.

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LEGAL REPORTS.

TRADE LAW.

A Trade Debt.—In the City of London Court on Tuesday, before Judge Rentoul, K.C., Allen & Hanburys, Ltd., applied to have Dr. S. H. Curry, 389 Upper Richmond Road, Putney, committed for the non-payment of 18*s.* 9*d.*, balance of 8*l.* 18*s.* due for drugs supplied. Plaintiffs' representative said that the drugs were supplied nearly three years ago. He did not know why the defendant did not pay the balance. He never paid anything until a summons was issued. Judge Rentoul ordered the defendant to pay the debt in a month, with committal in default

Dentists Act.—At Chelmsford on March 13, Gladstone Ward was fined 40*s.*, and 29*s.* 6*d.* costs, for taking or using the name or title of dentist, he not being then registered under the Act. The proceedings were instituted by the British Dental Association. The defendant practised in Tindal Street as "The Anglo-American Dental Surgery. G. Ward, Teeth Extraction." The offence was that in applying for membership of the Chelmsford Conservative and Unionist Working Men's Club he, in the presence of the Secretary, wrote the declaration required and described his occupation as "dentist." Later, in consequence of some talk, he added to the word "dentist" the letters "ry." Evidence in support of this statement was given. The solicitor for the defendant admitted a technical offence. The Mayor elicited there was no evidence that defendant's name, address, and occupation were put on the notice-board at the Conservative Club. After a short retirement, the Mayor said the opinion of the Bench was that this was not a flagrant case, but at the same time dentists and the public must be protected against this kind of thing, and imposed the penalty as stated.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

Worcester Sauce Formula.

In the Chancery Division on March 20, Mr. Justice Eve granted an injunction on an application by Mr. Charles William Dyson Perrins to restrain Mr. William Dyson Barnitt, as executor of a former partner in the firm of Lea & Perrins, from using any recipe containing a formula from which the plaintiff's Worcester sauce was manufactured. It was stated that after the death of the partner the firm purchased his share and interest. The injunction was to operate over a week.

A Contract for Arsenic.

An interlocutory appeal in the case of "Gayet *v.* the British Mining and Metal Co., Ltd.," which is a dispute over a large contract for rough arsenic, came before the Court of Appeal, consisting of Lords Justices Swinfen-Eady and Phillimore, on March 23. The appeal was by the defendant company.

Mr. Patrick Hastings (for the defendants) said Mr. Justice Coleridge had reversed the order of Master Archibald, who had given them unconditional leave to defend the action. He gave the defendants leave to appeal on the condition that they brought into Court the whole of the money claimed by the plaintiffs—viz., 965*l.* Plaintiffs sold under contract to the defendants some 700 or 800 tons of rough arsenic, which was to be delivered and paid for by instalments. All the instalments had been received except the last, and, as the defendants offered a two-months' bill for the penultimate one, plaintiffs refused to take it, and said they would sell the last instalment themselves. Plaintiffs declined to entertain any offer from defendants, retained the last instalment and sold it. They paid themselves for the last instalment but one, and, said counsel, for the last one as well, because of the increased price of arsenic, and the question was whether the defendants' action was such as to repudiate the contract for the balance. Counsel contended that they were entitled to set off the extra amount obtained by the plaintiffs against the debt defendants owed to the plaintiffs.

The Court asked how much plaintiffs obtained for the sale of the last instalment of arsenic.

Counsel said he could ascertain the amount, and the appeal was adjourned for a week in order that the price might be ascertained.

A. & H. Pastilles.

In the Chancery Division on March 20, Mr. Justice Astbury had before him a motion in an action by Messrs. Allen & Hanburys, Ltd., against a chemist named A. Williams to restrain him from selling throat-pastilles described as "A. & H. No. 55. Antiseptic."

Mr. Kerly, for the plaintiffs, said the evidence in the case was that the offending pastilles were prescribed by a doctor on several occasions. Patients got suspicious, and inquiries were made. The defendant's explanation was a most unsatisfactory one. He said that the prescriptions he got came mainly from doctors on the panel of the Insurance Act, and that the Insurance authorities would not pay chemists for the supply of proprietary articles, and therefore, when he got a prescription for a proprietary article, he made up something near it. In point of fact, he made up something cheaper.

The defendant, who appeared in person, said he had no intention of passing off stuff that was not the plaintiffs' as if it were. But the Insurance people would not allow for proprietary goods.

His Lordship said that, whether he was paid for articles or not, he had no right to supply one thing when another was prescribed.

In answer to his Lordship, defendant said he did not tell people he was giving them something different. The things he supplied were of the same quality and price. The plaintiffs gave him no warning before bringing their action.

His Lordship : You are not supposed to have any warning. You have done a grossly improper thing. You have no right to copy other people's proprietary article merely because you do not think you will get paid by the Insurance authorities.

The defendant electing to have the motion treated as the trial of the action, his Lordship made an order for a perpetual injunction against him, with costs.

Sale of Food and Drugs Acts.

Syr. Ferri Phos. c. Quinin. et Strych., B.P.

At Long Melford, Suffolk, before the Rev. Sir William Hyde Parker (in the chair) and Dr. H. D. King, on March 20, Thomas John Green, chemist and druggist, Lavenham, was summoned, under Section 6 of the 1875 Act, for selling syrup of phosphate of iron with quinine and strychnine which was 37 per cent. deficient in quinine, having contained 82 grains of quinine sulphate per pint, instead of 130 grains as required by the British Pharmacopœia. Defendant pleaded not guilty, and was represented by Mr. C. H. Kirby, of London.

Police-constable George Smith proved the purchase on February 13 of one shillingsworth of syrup of phosphate of iron with quinine and strychnine. He had to sign Mr. Green's poison-book entry (4 oz. Easton's syrup), the purpose for which it was required being entered as "analysis."

Inspector Benstead proved the division of the drug into the statutory three parts, and produced the public analyst's certificate.

The Magistrates' Clerk said the analyst, in his observations, stated : "The British Pharmacopœia requires that this preparation shall contain 130 grains of quinine sulphate per pint. The sample is, therefore, 37 per cent. deficient in quinine sulphate. The other ingredients are up to the B.P. standard."

Mr. Kirby said that defendant had given notice of his intention to rely upon a warranty from the wholesale firm (Corbyn, Stacey & Co., Ltd.) from whom he purchased the preparation, and whose price-list stated, "We guarantee all B.P. and B.P.C. preparations to answer the character and tests of the respective standards," the letters "B.P." meaning British Pharmacopœia, and "B.P.C." the British Pharmaceutical Codex, another book of almost equal authority. That price-list included this particular article, and it was that article and upon that price-list that Mr. Green bought. The article was included with a number of other things which Mr. Green bought on November 24, 1913, and in an invoice of that date was the name "Easton's syrup," and the syrup was sent to him labelled "Syrup. Eastonii (Fer. Phos. cum

Quin. et Strych.), Corbyn, Stacey & Co., wholesale druggists, London." He submitted that, if the identity of the article was proved, the guarantee, "We guarantee all B.P. and B.P.C. preparations to answer the characters and tests of their respective standards," was a sufficient guarantee and the only guarantee which was available for purposes of that sort. He pointed out that in the B.P. and B.P.C. the ingredients of the preparation were given exactly the same in proportion.

Mr. Green, the defendant, was then called. He stated that he has carried on business as a chemist at Lavenham for twenty-five years, and he had never been summoned before for anything. He served the constable from the bottle produced, which had never been opened and which had been kept in the cellar. He knew it was for analysis, and he never gave a sample with more confidence. He bought the syrup from Messrs. Corbyn, Stacey & Co., and in their invoice it was described as "Easton's syrup." He bought upon the price-list produced, dated October 25. The price-list stated: "We guarantee all B.P. and B.P.C. preparations to answer the characters and tests of their respective standards." On the other side of the price-list was "Syrup of phosphate of iron, with quinine and strychnine," with the price, and that was what he ordered. After he received the summons he wrote to Messrs. Corbyn, Stacey & Co. Mr. Kirby handed to the Bench a letter from Messrs. Corbyn, Stacey & Co., admitting that they had by error sent him a preparation, "Syrup. Easton., Corbyn," which contains half a grain of quinine in each fluid drachm instead of the B.P. quantity. They accepted full responsibility for the error, which they regretted. Mr. Green produced the bottle of syrup as received from the firm.

Dr. King said that Easton's syrup was a proprietary article, and pointed out that the preparation did not bear the words "B.P. or "B.P.C." on the label.

Defendant said he did not think it contained anything but what he had ordered. Replying to Inspector Benstead, defendant said there was no guarantee given on the invoice. The guarantee was given generally in the monthly price-list.

Mr. William Johnston, Ph.C. (London), gave evidence to prove that Easton's syrup, B.P.C., and syr. ferri phosph. c. quinin. et strych., B.P., are the same, and their formulæ the same. He also stated that Easton's syrup is not a proprietary article.

Dr. King said the firm stated that they guaranteed all B.P. and B.P.C. preparations. "Easton's syrup is neither one nor the other," he added.

Mr. Kirby said it was proved to be the same article as described in both those books.

Mr. Johnston said Easton's syrup is the same substance as the substance prescribed in the two books he had referred to.

Mr. Green (recalled) said the night the sample was taken he wrote to the firm, who replied they had not the slightest doubt that the "Syr. Eastonii" would be quite all right.

The Chairman said the Bench were of opinion that Mr. Green was guilty of some carelessness in this matter, but they believed it to be quite unintentional carelessness. He ordered as he thought a B.P. or a B.P.C. preparation, with what he thought was a warranty, but he did not take the trouble to see that he got what he ordered. He should have taken more trouble to see that he got what he ordered. They proposed to dismiss the summons on payment of costs, 11*s*.

White Pepper.

At the Liverpool Police Court on March 25, before Mr. Stuart Deacon, White, Palmer & Co., pepper-grinders, London, were summoned for selling as white pepper a commodity containing 15 per cent. of the husks of black pepper. This was a continuation of the previous hearing of the case (*C. & D.*, March 7, p. 40) in which A. S. Morrish, a wholesale drysalter, was summoned in respect to the same pepper, the present defendants assuming full responsibility. Mr. Duder prosecuted, and Mr. H. Lindon Riley represented the defendants.

Mr. W. H. Roberts, city analyst, repeated his evidence that the pepper contained not less than 17 per cent. of black husks, which had been partially bleached. He added that 2 per cent. is a reasonable amount to allow. He was cross-examined by Mr. Riley as to the alleged bleaching, and stated in reply to the Magistrate that this is a question of fraud. Excess of husks was, however, the only complaint in this case, and he added in re-examination that he would have no objection if the pepper was sold without grading. The standard allowed in the United States was not more than 5 per cent. woody fibre; in Germany, 7½ per cent.; and in this case 9.3 per cent. was allowed.

The Magistrate: Have you had any complaints from consumers of the pepper?—Witness: No.

Then what is the object of the prosecution?—Because the sample was not of the nature and quality demanded.

Colonel Cooney, manager for Messrs. Cooper & Co., grocers, Liverpool, said when his firm ordered white pepper they would not complain of 3 or 4 per cent. of husks, but they would certainly complain if they had 15 per cent. In witness's opinion, it would still be white pepper, but it would contain more husks than it ought to have.

Charles W. H. Clark, senior partner in Messrs. Wright, Crossley & Co., spice-merchants, gave similar evidence, as also did several Liverpool grocers.

Mr. Roberts was recalled, and, in reply to Mr. Riley as to whether he is not the only analyst in the United Kingdom who had instituted proceedings like these, said he had not instituted them. Some ten years ago the whole question was up before. In reply to the Magistrate's inquiry as to what had happened to the case he heard a few weeks ago, Mr. Riley said it had been abandoned and the costs paid.

For the defence Mr. Lindon Riley called Joshua John Rachlan, managing director of the defendant firm, who said there was absolutely no process at their works for bleaching the pepper-berry, and nothing of the kind took place. Witness received Messrs. Morrish's portion of the sample taken. There were no husks in that sample foreign to the original berry, and none of it was either totally or partially bleached. It was undoubtedly white pepper. Witness explained the process of grading adopted at defendants' mills. The whole berry was ground and what portion went through a silk sieve was No. 1 grade. What did not go through was ground again and the portion which went through was No. 2 grade. The remaining portion was again put through and made No. 3 grade. The berries imported were never actually the same. The colours differed, and it was necessary to mix them to make their usual standard. As far as witness knew this was the universal method of dealing with pepper-berries, and it was the only way of grading the pepper to satisfy public requirements. The different grades were all equally valuable as condiment. Turmeric powder had never been used at defendants' premises.

Replying to Mr. Duder, witness said roughly 25 per cent. of black pepper is husk. It is really impossible to estimate the quantity of husks, but only the fibre. Pepper is sold according to its colour only, but traders know the firms they are dealing with. One grade is as good as another, though it is not so commercially. His firm turns out 500 tons a year. The present market value of black pepper is 4½*d*. and white pepper 8½*d*., but it would obviously not pay to mix them, as it would depreciate the value. His firm had never received any complaints.

Ernest John Parry, B.Sc., F.I.C., said he examined the sample and found it to contain white pepper free from adulteration, and containing all the essential constituents of white pepper in full average qualities. The percentages were: fibre 1.95, ash 3.7, insoluble ash 0.6, crude resin 3.25, and crude piperine 7.25. There is no scientific definition of white pepper, but in witness's opinion, supported by almost all experts, white pepper is the black pepper-berry deprived of a portion of the outer husk, and this ground is what is known as "white pepper"—*i.e.*, white to the naked eye. The better the colour of the pepper the less value it is as a condiment. Witness was of opinion that there was between 9 and 10 per cent. of husks in the sample which he had received. It was pure white pepper.

Frank Litherland Teed, D.Sc., F.I.C., said he had analysed a portion of the sample and it was in his opinion genuine white pepper. There was no presence of bleached husk or added husk. Of three grades of white pepper produced in court witness thought there was more pungency and flavour in the cheapest. There was no real test of finding the real amount of husks.

The Magistrate said he was very much impressed with witness's statement that there was no method by which the amount of husk could be ascertained, when Mr. Roberts had given a certificate that there was. Witness replied that he must stick to his opinion.

Professor H. G. Greenish said a portion of the sample which he examined contained the elements and tissues of white pepper and a small portion of the outer husks of black pepper. There was no indication of bleaching, and the sample was one of genuine English white pepper. Witness agreed with the last witness as to the difficulty of finding a test for husks. In a rough guess witness would say there was about 8 per cent. in this case.

Other evidence was from pepper-grinders, who stated that the samples produced were genuine white pepper.

This closed the evidence for the defence, and Mr. Lindon Riley was about to address the Court when Mr. Duder applied to the Magistrate that the third sample should be sent to Somerset House.

Mr. Stuart Deacon said that on the evidence as it stood he would have had to come to the conclusion that he could not accept Mr. Roberts's analysis. He had already debated over in his mind as to whether he should himself send the sample up, but he came to the conclusion that he ought not to do so as expert evidence had been called on both sides, and he would have decided on the evidence. But as he had been asked to send the sample up he was not only bound, but he would have felt it his duty to do so. The result, however, would not affect the legal questions already raised, such as whether Mr. Roberts' certificate was a good one or not. The case would therefore stand adjourned for six weeks.

It was also agreed that another pepper case should stand over until the present one was decided.

Pharmacy Acts (Ireland).

Illegal Compounding.

In the Belfast Summons Court, before Sir Andrew Newton-Brady, R.M., on March 20, Jonathan Unsworth, registered druggist, 60 Cliftonville Road, Belfast, was summoned, at the instance of the Pharmaceutical Society of Ireland, for compounding a medical prescription on January 22 contrary to the Pharmacy Act, 1875, he not being a person legally qualified to do so. Defendant was also prosecuted for keeping open shop for compounding medical prescriptions at 60 Cliftonville Road. Mr. J. Graham prosecuted for the Society, and Mr. J. S. Osborne defended.

Mr. Graham, in stating the case, said that on January 14 Mr. McGlennon, inspector for the Society, sent a boy named Charles Pollock into defendant's shop with the documents now produced, one of which was a counterpart of the other, and bore the address of Dr. Watt at the top and his signature at the bottom. The defendant made up the prescription and gave it to the boy, but did not charge him for it. He did not return the document until the inspector sent the boy in for it again. On January 22 the boy went back with the prescription, and the defendant compounded it, and charged the boy fivepence. He did not return the document, and when the boy went in for it again Mr. Unsworth returned it, with the address and the name cut away. The inspector, when he saw the document, went into defendant's premises and asked him why he had compounded the prescription. The latter replied that it was not a doctor's, but subsequently admitted that it was, and he had cut the address and the name away. He also expressed his regret. The Society would not have pressed for a penalty in this case but for the fact that they had got evidence to show that the defendant had been compounding these prescriptions for some time. Concluding, Mr. Graham read Sections 21 and 30 of the Pharmacy Act, 1875, which make it penal for a person not registered as a pharmaceutical chemist to compound medical prescriptions, subject to a minimum penalty of 5*l*.

Inspector McGlennon and the boy Pollock gave evidence bearing out Mr. Graham's statement. Pollock, replying to Mr. Osborne, said he did not tell Mr. Unsworth that he had come from Dr. Watt the first time he went in with the prescription. He also got some linseed-meal, stating that it was for a cold. Mr. Unsworth charged for the meal, but not for the prescription. On the second occasion that witness went in for the prescription the defendant told him to go to another chemist who would be qualified to compound it. Witness went out, and returned some time later. The defendant did not ask him if he had got the prescription compounded.

Mr. Osborne, for the defence, said his client had only been in business for a short time, and was not in the habit of compounding those prescriptions, but in this case had taken pity on the boy, who said he had a bad cold.

His Worship: The gravest part of the case is the cutting away of the name.

Mr. Osborne: The defendant admits that he was indiscreet, but he will not repeat the offence.

Mr. Graham said in those circumstances he would only ask for a penalty on one of the summonses.

His Worship imposed a fine of 5*l*., and special costs on the summons for compounding a medical prescription.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

Page's Drug Stores, Ltd. (P.C.).—Capital 100*l*., in 1*l*. shares. E. J. Page, 205 Hertford Road, Lower Edmonton, drug-store proprietor, is the first director.

Duckett & Co., Ltd. (P.C.).—Capital 1,500*l*., in 1*l*. shares. Objects: To carry on the business of wholesale and retail chemists, druggists, patent-medicine vendors, grocers, drysalters, etc. The first subscribers and directors are A. H. Solomon and F. W. Duckett. R.O., 92 Jermyn Street, London, S.W.

Company News.

Veno Drug Co., Ltd.—The directors announce a dividend of 7½ per cent., carrying 617*l*. forward.

Castle Drug Co., Ltd.—Mr. A. P. Taylor, 14 New Street, Birmingham, ceased to act as receiver or manager on March 4.

The United Alkali Co., Ltd.—At the annual meeting held in Liverpool on March 13 the annual report was adopted, after some criticism of the unsatisfactory condition of things.

Wright, Layman & Umney (1909), Ltd.—The report of the directors for 1913 shows that the trading profit was 17,446*l*., and with a balance from 1912 a sum of 17,816*l*. is available for disposal. Of this 3,700*l*. has been paid to the directors in fees and remuneration, 592*l*. 9*s*. 4*d*. in income-tax, 5,085*l*. in 6 per cent. dividend on 90,000*l*. preference shares, and 2,542*l*. as interim dividend of 6 per cent. on 45,000*l*. ordinary shares, leaving a balance of 5,896*l*. to dispose of. From this balance the directors propose to pay a further dividend on the ordinary shares, making 15 per cent. for the year; this will absorb 3,813*l*., and they propose to place 1,500*l*. to the reserve fund (making it 5,000*l*.), and to carry forward 582*l*. These figures are the best that the directors have reported since the business was first incorporated in 1905, and the annual trading profits averaged 14,313*l*. until the company was reincorporated in 1909. That year the profits were increased to 15,527*l*.; in 1910, 14,765*l*.; in 1911, 14,411*l*.; and in 1912, 14,898*l*. The dividend now paid on the ordinary shares (which in the 1909 reorganisation were taken by the directors) is the highest recorded by the company. The directors observe that "both the sales and the net profit in the Wright's coal-tar speciality department have been record ones." The working arrangement with W. Woodward, Ltd., and Mr. John C. Umney's connection with that company as joint managing director are also referred to. A meeting of ordinary shareholders is to be held at the offices of the company on March 27, when the report will be submitted and a director and auditors elected. Mr. G. B. Layman is the retiring director, and offers himself for re-election. The other directors are Messrs. C. Umney (chairman) and H. C. Wright, J. C. Umney, F. N. Layman, and E. A. Umney (joint managing directors).

WESTMINSTER WISDOM.

The Week in Parliament.

Panel Chemists.

Replying in the House of Commons to Mr. Godfrey Locker-Lampson on March 19, Mr. Benn stated that the Drug Funds of the Stoke-on-Trent Insurance Committee (in whose area the per-attendance system was in operation for the first quarter of 1913) are estimated to amount to approximately 85 per cent. of the total chemists' bills presented. In the absence of any action by the chemists concerned to put into operation the surcharging provisions of the Regulations, the total amount available in the Drug Funds will be paid in settlement of their accounts as provided by the agreements into which they entered. The average cost per prescription has risen during 1913, but the number of prescriptions has steadily decreased.

In the House of Commons on Monday, Mr. G. Locker-Lampson, M.P., asked the Chancellor of the Exchequer whether, in the case of a deficiency in the Drug Fund in any district, chemists who have not had their accounts paid for 1913 can surcharge the doctors for the amount if it is proved that the prescriptions have not been unreasonable.

Mr. Wedgwood Benn replied that the provisions of the regulations as to surcharging apply only to prescriptions which are in excess of what is reasonable either in character or in amount.

Mr. G. Locker-Lampson, M.P., asked the Secretary to the Treasury on Monday whether the Government propose to make a grant to those chemists whose bills for 1913 have not been paid owing to a deficiency in the Drug Fund, if it is shown that the prescriptions ordered by the doctors were not unreasonable.

Mr. Wedgwood Benn said he had nothing to add to previous replies on the subject.

Mr. Locker-Lampson added that in view of the unsatisfactory nature of the hon. member's answer he should direct attention to the matter at the earliest moment.

In reply to Mr. Godfrey Locker-Lampson on Tuesday as to the largest sum still owing to any individual panel chemist in Manchester, Mr. Wedgwood Benn said it is not at present known what amount will ultimately prove to be due for 1913 to any individual chemist in Manchester. Mr. Lampson was also informed by the Prime Minister that he will not give facilities for the introduction of a Bill to provide a grant for those panel chemists whose accounts for 1913 cannot be met out of the Drug Fund. Mr. Asquith added that he is not aware that a case has been made out for altering the arrangements under which the existing Parliamentary grant was given.

Mr. Locker-Lampson inquired if the right hon. gentleman could give an assurance that no panel chemist will suffer financially because he is carrying out his duties under the Act.

The Prime Minister was understood to say that he was told that chemists had entered into an agreement which is still binding.

Sir W. Byles asked whether the Prime Minister would make inquiries that would satisfy him that the chemists in Manchester, Salford, and elsewhere will not be deprived of the payment to which they are absolutely entitled.

The Prime Minister replied that he understood that inquiry is now going on at the hands of chemists themselves.

Mr. Hamilton asked the Chancellor of the Exchequer on Wednesday whether the Government will guarantee the payment in full of the bills of panel chemists under the Act of last year. Mr. Lloyd George referred him to the reply to Mr. Lampson.

The Prime Minister was asked on Thursday by Mr. Hamilton whether he will give a day for the discussion of the deficiencies in the Drug Fund which have occurred under the National Insurance Acts? Mr. Hamilton also asked how many Insurance Committees have now informed the Insurance Commissioners that the Drug Fund in their districts will be insufficient to pay the accounts of the chemists of 1913?

Mr. Wedgwood Benn, replying to Mr. Hamilton, said that in the case of twenty-two Insurance Committees chemists' accounts have been presented in excess of the Drug Fund. As he had already stated, he could not yet say whether there would be any deficiency or not.—As to whether an opportunity would be given to discuss the matter, Mr. Lloyd George stated that it would on the Civil Service Estimates that afternoon. [The debate had not commenced when these pages were closed for press.]

The Position of Panel Chemists.

A debate of much interest and importance to chemists took place in the House of Commons on Tuesday evening, when Sir Henry Craik, M.P., moved: "That in the opinion of this House medical relief under the National Insurance Act is open to objection as regards some of its principles, inadequate in many respects, and likely to lead to serious difficulty; and that the supply of Sanatorium Benefit is greatly defective." Mr. Godfrey Locker-Lampson, M.P., seconded the motion, and in the course of his speech made the following allusions to the position of panel chemists:

"A very unsatisfactory state also exists in another branch of Medical Benefit. I refer to medicines and appliances. This unsatisfactory state exists especially in the industrial districts. 'Medical treatment and proper and sufficient medicine' would seem to be a kind of unrestricted term under the Act. Unfortunately for the insured person, it is not at all unrestricted. For instance, the Bolton Insurance Committee have sent out to all the panel doctors a circular prohibiting the prescription for ordinary patients of extract of malt, oil, cod-liver oil emulsion, and petroleum emulsion. I have also got here the Drug Tariff of the London Insurance Committee, which allows these medicines. Therefore the Bolton patients, who need building-up in order to avoid the possibility perhaps of consumption, cannot have the necessary malt and cod-liver oil, while the London patient can. What is this difference of insured persons under the Act? It is quite clear. I have here a copy of The Chemist and Druggist for this month. It is shown there that in Bolton there is an estimated deficit of 24 per cent. in the Bolton Drug Fund—that is to say, there is a sum of only 7,200*l.* available to pay 8,950*l.* due for chemists' bills during last year. The hon. member for St. George's-in-the-East the other day repudiated the suggestion that the Bolton restriction arose out of any deficiency in the chemists' account; but it is rather curious that this restriction should have been imposed in the January of this year, after the state of the chemists' account at Bolton was made known. Why did the Bolton patient get malt and oil in 1913, and why cannot he get it now? The reason is perfectly obvious. The Act in this respect is bankrupt. There is not enough money to go round. If I had time I could show that exactly the same thing is taking place in the case of the Southampton Insurance Committee. This question of medicine is of twofold importance. First, there is the restriction of getting medicine for insured persons, which is extremely grave, and which is absolutely illegal, because the Act says that medicines must be proper and sufficient; and second, where the medicines are not restricted, and where the Drug Fund becomes insolvent, you have got unfair treatment of the chemists who have supplied the medicines ordered by the doctors, and cannot get their bills paid for last year. [Mr. Lampson then referred to statements by Mr. Lloyd George and Mr. Benn, and proceeded:] "There are deficiencies in Manchester, Blackburn, Bolton, Burnley, Bury, Oldham, Preston, Rochdale, Salford, Stockport, and Wigan. I have got a letter, written three or four days ago, by a Manchester chemist, who says:

'I have worked day and night for the success of the Act. Personally, I have been tied up to work every Sunday for the last twelve months, and had to give up my holiday last year. The Commissioners owe me 800*l.* for drugs and appliances supplied. There is no use disguising the fact that deficiency spells ruin to many of our men. The scripts sent to me in January this year have only brought 50 per cent.'

In Yorkshire there is also a deficiency."

Mr. Lampson also referred to deficiencies in Leeds, Scotland, and Bradford, stating that the real cause of the trouble is excessive sickness, and longer-continued sickness than the Chancellor of the Exchequer ever expected, adding that one result will be that if chemists are unpaid they will be tempted to demand that less costly drugs be prescribed, or that certain medicines shall not be prescribed at all, and that has been done in Bolton, Southampton, and elsewhere.

Mr. H. W. Forster, M.P., argued that insured persons are not getting the best doctors, the best drugs, or the best and most suitable treatment.

Mr. Herbert Samuel and Mr. Wedgwood Benn replied for the Government, but they made no allusion to the position of the chemists, whereupon

Mr. G. Locker-Lampson said: May I ask the hon. gentleman, who has not referred to a single argument advanced on this side, whether he is going to see that the chemists shall be paid or not?

Mr. Benn: I will ask the hon. member this question in return: Is he authorised by any body of chemists in Manchester or Salford to complain that money is owing to them?

Mr. G. Locker-Lampson: I ask the hon. gentleman once more whether, on behalf of the Government, he will give a pledge that the chemists will be paid the money that is due to them under the Act?

Mr. Benn: When I have reason to suppose that the chemists through authorised channels are making the demand, an answer can be given to that question. I will ask the hon. member these questions: Under his voluntary system how are you going to pay the doctors, and what control are you going to have over societies?

Eventually the motion was talked out.

Government Lymph.

The President of the Local Government Board announced on Monday that lymph prepared in the Government lymph establishment is not exported to any of the British possessions for general use. It is, however, sent from time to time for use by the Army and Navy. Among the places to which it is consigned are Bermuda, Jamaica, Gibraltar, Malta, Cape Town, and Sierra Leone.

Short Weight in Foods.

The *personnel* of the Select Committee of the House of Commons, to which the first allusion was made a week or two ago by our Parliamentary correspondent, has now been agreed upon by the party Whips. It will consist of Sir Archibald Williamson (as Chairman), Sir W. Lawson, Sir G. Wills, Colonel Weston, and Messrs. Rowntree, Bentham, Hinds, Radford, Agg-Gardner, Du Cros, Du Pré, M. Barlow, W. Field, Cotton, and Parker. The Committee is charged to inquire into, among other matters, the practice of weighing the paper in which articles are packed.

The Use of "Johnin."

The President of the Board of Agriculture informed Mr. C. Bathurst, M.P., on March 19, that the inquiry into Johne's disease which is being conducted by the Royal Veterinary College includes the use of "Johnin"—a test-substance prepared from the causal bacillus. It is, however, considered advisable to obtain further evidence, and with this object "Johnin" is now being supplied gratis to veterinary surgeons for testing animals suspected of the disease. The College will publish a report on the subject as soon as the evidence collected appears to be sufficient to warrant definite conclusions.

Opium and the Pharmacy Acts.

In the House of Commons on Monday Mr. S. Robinson, M.P., asked the Home Secretary to state what action is at present taken to restrict the wholesale disposal of opium to Chinese and others in our seaports; and whether the purpose of the Pharmacy Act, 1909 (*sic*) is being defeated by the retail of unlimited quantities of opium to smokers and keepers of seamen's lodging-houses.—The Home Secretary replied that the only restrictions at present imposed by law on the sale of opium are those contained in the Pharmacy Acts. By the Act of 1906 (*sic*) opium is included in the first part of the schedule of poisons to which the Acts apply, and can only be sold by a registered chemist and in accordance with the special conditions prescribed by Section 17 of the Act of 1868 for the sale of poisons in the first part of the schedule. He was informed that the Pharmaceutical Society has on several occasions taken proceedings against Chinese storekeepers and other traders for the illegal sale of opium, and is prepared to take further action if and when definite evidence is available.

[The Poisons and Pharmacy Act, 1908 (not 1909 or 1906) is apparently meant.—Editor *C. & D.*]

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Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).
Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

165/58. "Zolflu" for influenza.
165/57. Gard's self-cleaning chemical plate cloths.
167/582. "Florax" furniture-cream.
167/583. "Cygo" glove-cleaner.
167/584. Mercer's linen gloss.
167/585. "Anti - Bolbos" cream.
167/586. "Bextrose."
168/15. Heywood's "Salubrious Water."
169/21. "Salva Fruta."
167/58. "Cotoline" liquid court plaster.
167/580. "Formoral," for plants.
167/581. "Dermalon" ointment.
164/17. "Pearl Foam"
138/23 and 145/60. "Caguala" or "Caquala" (L. & H. Loeper, formerly of 13 Paton Street, Manchester).
169/18. Jones's "Epsom" court plaster.
171/39. "Intestifermin."
171/71. "Falosal."
171/68. "Nitrigium" (a chloroform-substitute).
171/69. Citrin plaster.
172/21. "Egglettes" of menthol, etc.
172/22. Vincent's angina vaccine.
173/11. Water-sterilising apparatus (Cartault system).
173/37. "Ecrivaste" olive oil (Dupont & Co.).
173/38. Dr. Watt's hair-cream.
173/380. Jefferson's hair-remedy.
173/381. "Luxolia" hair-restorer.
173/31. "Capilline."
173/39. "Mushkhau" (an Indian remedy).
173/40. "Bueumin" (a preparation of creosote).

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

Amulets, perfumed (for the Transvaal), 161/65
Anæsthesin (Ritsert), 166/34
Anturin, 157/43
Aquol, 170/43
Comprimé Biolactyl, 162/45
"Cresco" vacuum-flask, 172/44
Dassurin (hydraeeum), 168/32
Dermatan, 167/584
Digitoxin, 171/70
Dow Chemical Co.'s products, 166/19
"Dustolio," 167/581
"Eldon" antiseptic baby powder, 165/56
Greaseproof paper cups (for ointments), 164/34
Harper's "Mascaro," 168/16
Hunt's bottle-caps, 163/54
Hydrogen compressed (in cylinders), 170/40
"Hygienol" tooth-powder, 161/17
Lohse's Lilien Milch soap, 164/17
Mallebrein prophylactic, 134/53
Mel Rose tablets, 164/170
Metal pump perfume-sprays (Continental makers), 160/13
Milk-sugar, 164/65
Mil-ser-ol fluid, 163/16
Parian plaster (for marble), 162/594
Papier Plassard, 161/21
Pasteur (Chamberland) filters, 156/13
Pasteurine tooth-paste, 158/49
Pedoids, 160/12
Pertussin, 159/301
Pine shampoo, concentrated, 162/590
Plasma tablets, 158/74
Polivit, 157/504
Ray's embrocation, 162/592
"Red Cresse" cold-cream, 167/580
Rubinstein's "Valaze" cream, 161/170
Salfruta, 169/21
Shurzine, 172/442
Slocum's "Psychine" toilet-preparations, 157/505
Snowleen, 164/55
Soap-leaves, 170/68
Sodium arsenite, 157/3
Sperminol, 161/20
Succus Alterans (Eli Lilly & Co.), 166/150
Supinator foot-arches, 155/35
"Tekko" paste, 167/582
Vale's roup-pills, 167/583
Valules, 168/17
Vasenol, 168/160
Willow boxes, 170/27
Wintergreen and capsicum plasters, 164/28
Zeller's cancer treatment, 167/58

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Fabian Report

on the working of the Insurance Act is not, in my judgment, quite so impartial as you think it, though I have no doubt it was honestly meant to be so. As a constant reader of the brilliantly written weekly in which it appeared, which reflects the opinions of the Fabian Society, though it is not its official organ, I am persuaded that many of the most prominent members of the Society have from the first not only disliked the Act, but done their best to find flaws and faults in it. The Fabian ideal is a complete State Medical Service, and the Act is regarded not so much as an instalment of such a service as a substitute for it. Fabians, in spite of their professed policy of hastening slowly, are, as individuals, as impatient as other mortals; indeed, it would be but human if the cherishing of an ideal made them more impatient. In spite of this initial dislike of the Act I believe, as I have said, that the report is meant to be impartial, and it certainly is more favourable than I anticipated. Nevertheless, as several eminent panel doctors have complained, it

Greatly Exaggerates the Defects

of the Medical Benefit provided by the Act, and to some extent misrepresents its object. That object (so far as the particular point in view is concerned) was that insured persons should receive the same kind and quality of medical service as private patients of the same class are able to get, and in speaking to dispensers under the Act I need not say that this has been secured. Let me give one evident instance of prejudiced statement in the report. It is suggested that the Commissioners may make a "further attempt" to "restrict the quantity or the *quality* or the range of the remedies" allowed. Now, not only is there absolutely no ground for such a suggestion, but there is no ground either for the implied charge that the *quality* of drugs, as distinguished from the "range," has hitherto been restricted. There is in the report itself nothing to justify the suggestion. Even as regards the range of drugs the most it says is that "subtle discouragement" has been employed. I have chosen this point for comment partly because I have been told of at least one case in which a panel chemist has complained to a private customer that under the Act the "best drugs" cannot be dispensed—such, at least, was the impression he conveyed, though I can hardly believe he used such words. It is, as we all know, untrue, and to say anything capable of that construction is in a pharmacist simply suicidal.

"A National Obligation"

is the phrase used by Sir William Byles regarding the money due to the Manchester chemists, and, though no reply was given to his question in the House, we must see to it that that obligation is redeemed. It will be an eternal dishonour and disgrace to those concerned if the sums due to Manchester chemists are not speedily forthcoming from one source or another. I hope, therefore, that every member of the House of Commons who has a spark of honour or of conscience left will keep the question alive till these men get their rights. If there is machinery in the Insurance Act itself by which the money can be found, then let that be set in motion; but if the chemists are themselves to move, who knows that the law expenses will not swallow up a big slice of what is due to them, not to speak of the glorious uncertainty of that method of redress? This, it seems to me, is peculiarly a situation which Mr. Lloyd George himself should tackle and settle.

The Opium Convention,

like Mahomet's coffin, is suspended between heaven and earth, and while in that state of suspense it is worthless as an instrument for any practical purpose. But while the Convention itself may fail as an administrative force, I hope its educational value will not be lost sight of, and that we as chemists will do what we can, each in his own sphere, to limit the evils which the Convention in its essential features was intended to abolish. There always will be a legitimate demand for and use of cocaine and morphine, and there will also probably always be an illegitimate demand. If we conscientiously set ourselves to discourage the latter by a judicious method of satisfying the legitimate use of these drugs, then the evil so far as we are concerned will be as effectually scotched as it would be by the adoption of the most stringent legal enactments. So far as Great Britain is concerned, I believe that the use of habit-forming drugs is nothing like so general as it is in France and the United States, and if pharmacists are alive to the gravity of the peril the taking of cocaine and morphine can in thousands of cases be stopped before it becomes a "habit."

The Willow,

now of so much importance as the source of salicin, was not much used in medicine by our forefathers, though, curiously enough, the ashes of the bark have been employed for the removal of corns and warts since the time of Dioscorides, thus anticipating the use of salicylic acid for that purpose. The juice of the bark, too, was known to have virtue as a "cleansing medicine of thin and subtle parts." It was used for hæmorrhages (chiefly for spitting of blood) but the leaves were more esteemed, and the green boughs of the tree were hung up in the sick-chamber in cases of fever, because, as Gerard says, "they doe mightily coole the heate of the aire." With the waning faith in this idea the willow virtually disappeared from practice in this country, and the bark had no place in our Pharmacopœia until 1809. It was given in doses of twenty to sixty grains, or preferably in equivalent quantities of decoction, in intermittent and remittent fevers, in phthisis, dropsy, etc., and as a tonic in chronic dyspepsia. The discovery of salicin by Leroux early in last century does not appear to have been regarded at first as of much importance, for Rennie in his note on this "new" drug says it is "only to be used where quina cannot be had, or where this is contra-indicated," and it was not included in the next two Pharmacopœias.

"March, Many Weathers"

(that is, many storms) is making up for the abnormally fine February of which pharmacists have been complaining, and the last day of winter (according to the almanac) is the worst of the whole season. This is quite in accordance with the wisdom of our ancestors, and if those ancients may be trusted we shall have foul weather enough before the year is out. "All the months of the year Curse a fair Februeer"; "March in Janiveer, Janiveer in March, I fear"; these and other old saws too numerous to quote promise us that. They refer chiefly, it is true, to husbandry, but the best known of them all, "A green winter makes a fat churchyard," gives the sense of several others. Ray, from whose collection I quote, says that this was refuted in the year of the great plague, and also in the year 1667, the former having been preceded by one of the severest winters on record, and the latter preceded by an exceptionally mild one, proving very "healthful" all through. Refutations of this sort, however, go for nothing with most people, and the proverb is still an article of faith with many. Some of Ray's proverbs relating to health are much more out of date—*e.g.*, "An ague in the spring Is physic for a king"; "Wash your hands often, your feet seldom, your head never"; "The air of a window is as the stroke of a cross-bow."

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Editorial Articles.

Dispensing Ethics and Practice.

In the early days of the National Insurance Act it was conjectured that some special provision would have to be made in order to check the dispensing of medical prescriptions by panel chemists. It is difficult to understand why such an alarming view of the matter should have been taken in some quarters, because the dispensing chemist is an honourable man, and alteration and substitution in dispensing are as rare as fraudulent business men. The idea may have originated among dispensing doctors, who have frequently been heard to say that the chief reason why they dispense is that they can be sure of what their patients get, and they cannot be if the chemist dispenses the medicine. This idea may have been responsible for the talk during the first quarter of 1913 about the appointment of inspectors of pharmacy. It was understood then that the Commissioners had the matter under consideration, but what these inspectors were to do was never made clear, only that there would be something in the nature of inspection of the medicines dispensed and the places they were dispensed in. There is still an occasional rumour that the inspectorships will be instituted. We do not believe in the need for such appointments, for we see no occasion for spending Insurance money on work of that nature while there are departments and statutory provisions which cover the ground. It is, for example, the duty of the Pharmaceutical Society of Great Britain to see that panel chemists conform to Pharmacy Acts conditions in the dispensing of poisons and in carrying on the business of chemists and druggists, which is what everyone on the dispensing panel does. We fancy that the Pharmaceutical Society would have a grievance if the Insurance Commissioners appointed inspectors to see that the Society does its duty. The Local Government Boards of England and Wales and Scotland are the departments which are entrusted with the administration of the Sale of Food and Drugs Acts, and Section 7 of the 1875 Act requires that no person shall sell any compound article of food or compounded drug which is not composed of ingredients in accordance with the demand of the purchaser under a penalty not exceeding 20*l*. Enforcement of this provision would meet

any negligent or wilful cases of malpractice in dispensing. There is doubt in some quarters as to whether or not this can be applied to Insurance Act dispensing, but the fact is that it has been applied, three convictions having been obtained in England of panel chemists who dispensed Insurance medicines which were not compounded in accordance with the panel doctors' prescriptions. These cases not only show the efficiency of the Sale of Food and Drugs Acts in dealing with incorrect dispensing, but are a reflex of the excellent manner in which Insurance dispensing has been done, seeing that in only three instances out of many millions has it been found necessary to institute proceedings against panel chemists for incorrect dispensing. The appointment of Pharmaceutical Committees under the amending Act of 1913 ought to be of special service to Insurance Committees and through them to Commissioners in respect to allegations of inaccurate dispensing, and from the constitution of the Pharmaceutical Committees it is apparent that they will play the part that pharmacy inspectors were expected to do. The manner of working is familiar to panel chemists who are connected with the Committees, and for the rest it may be illustrated by three cases referred to the Pharmaceutical Service Sub-Committee of the London Insurance Committee, and transferred to the Joint Services Sub-Committee. Two of the cases were by an insured person as to one prescription which two panel chemists could not dispense because they had not in stock certain ingredients, and although one offered to get the ingredients by next morning the insured person did not accept the offer and complained to the Insurance Committee. In the third case the complaint against the panel chemist was that a liniment dispensed caused the patient swelling and pain, besides producing a rash. The Sub-Committee had the liniment analysed, and found it to be "prepared in accordance with the prescription furnished by the practitioner." Such cases are almost trivial, but it is right that they should be investigated and disposed of. We report a more serious allegation which was discussed at last week's meeting of the Finsbury Borough Council. There the charge against a panel chemist is that he dispensed an aspirin mixture with approximately half the prescribed quantity of aspirin. Instead of taking proceedings under Section 7 of the 1875 Act, the Borough Council is communicating with the London Insurance Committee with a view to getting a refund of the public analyst's fate. Here the matter may end unless the Insurance Committee considers it desirable to push the inquiry a stage, and by further sampling accumulate such evidence as will induce the Borough Council to take proceedings under Section 7. It is desirable that there should be no shirking by either body of their statutory duties. Our legal pages this week also afford another example of malpractice; this is an action for injunction by the manufacturers of "Allenburys" pastilles, which Mr. Justice Astbury granted against a panel chemist who dispensed pastilles of another make (supposed to contain similar medicinal ingredients), the reason given being that the Insurance Committee would not pay him the price for the "Allenburys" pastilles. This is the first-fruits in a public court of the restrictive rules which have been made by some Insurance Committees in regard to the prescription and dispensing of proprietary preparations. Mr. Justice Astbury was most emphatic in regard to the duty of chemists in such cases; he told the defendant that, whether he was paid for the articles or not, *he had no right to supply one thing when another was prescribed.* This legal maxim is applicable to all dispensing from medical prescriptions, Insurance Act or otherwise, and has been the universally accepted principle of dispensing chemists until the rules of Insurance Committees and others associated with them weakened the principle among some panel chemists. The case may serve to warn those who are inclined to be careless or indifferent in the matter. Substitution is not only ethically wrong, but in certain circumstances it is unlawful.

A Poison-book Entry.

It will be noted in our report of an Easton's syrup case under the Sale of Food and Drugs Acts (p. 58) that the purchaser signed the seller's poison-book after revealing the fact that the syrup was for analysis. We wonder if he had the right to tell? Under Section 14 of the 1875 Act notification comes "after the purchase shall have been completed," and a purchase of Easton's syrup cannot be completed until the poison-book entry has been made.

Checking Insurance Prescriptions.

The movement (especially in London and at the instigation of the Pharmaceutical Society) to get checking of Insurance prescriptions done as a charge upon the penny voted by Parliament for the expenses of Panel and Pharmaceutical Committees is not approved by the Medical Committees' representatives, who have passed a motion against it (see p. 72). We expect that this comes too late, so far as London and the home counties are concerned. Changes have recently been effected in the checking department at Bloomsbury Square (Mr. A. E. Bailey now supervising it), which are not likely to have been done without some assurance that final sanction would be given to the arrangements that have been negotiated with several Insurance Committees. Still, there is much to be said for the doctors' view.

Over-physicking.

Mr. Edmund White's remarks at the dinner given to him in Liverpool last week about over-physicking have been going the rounds of the papers, and they are worth repeating. He said:

"The people had been fostered in the belief—he believed the medical profession had a great deal to do with it—that if you are a doctor you knew what was the matter with them, and had got a remedy which would cure it. They believed that there were ills and sicknesses which the Almighty had sent for us to bear, and there were roots and herbs which the Almighty had sent to cure them. The old idea of a Pharmacopœia was being driven away by the spread of education. He believed the medical profession might do a great deal to lead the people to take a right view of the matter. He was sure there was a great deal too much drug-giving under the Insurance Act. Certainly it was a quick way of getting rid of patients, and he was not sure that was not at the bottom of the matter."

We expressed similar views last week (p. 49), and need only say now that the National Insurance Act will be the most potent factor for scientific treatment of disease in the future—better feeding and better conditions of labour and living are among the potentialities for the future that are possible under its provisions.

"Where Science Serves Business."

Under this title "System" prints an article by Sir William Ramsay on the well-worn subject of the necessity of the co-operation of science and industry. Sir William, however, puts forward a proposal for establishing a training-school for technical chemists as follows:

To start an association having for its object the encouragement of invention, each member of which would subscribe a certain sum for the erection of building and plant. There would need to be a number of isolated buildings, and a considerable collection of stock of a small scale. The works should be furnished with steam and electric current.

Such a syndicate might let it be known that they were willing to make arrangements with inventors or with syndicates that had secured the patents of an invention or an option on it.

Students would be admitted for an appropriate premium, as in engineering-works.

If a new idea were accepted, the share of the profits would be arranged with the patentee, should it prove successful.

In case the process proved a commercial success, those students who had helped to elaborate the process would naturally be first to obtain employment in the works. Manufacturers would naturally be anxious to obtain the services of men trained in so good a school.

The students in such an experimental works would have to do labourers' work; employers always respect a man who can "take his coat off."

The scheme, it is stated, is an imitation of the schools of technical chemistry which form part of every large German chemical-works.

Prescribing and Prescriptions.

THAT erstwhile chemist and pharmacist, now consulting physician to St. Mary's Hospital, Dr. Arthur P. Luff, F.R.C.P.Lond., recently delivered a lecture to the Medical Society of his hospital on the Art of Prescribing. On this occasion, as on others, he included among the causes of the loss of this art the existence of ready-made preparations and hospital formulæ. The lecture is printed in the "British Medical Journal" (1913, I., 633). He spoke of incompatibles, and mentioned one which is not generally noted in text-books—viz., that sodium nitrite and ammonium bromide should not be prescribed together in liquid form, as they produce an explosive mixture. Dr. Luff concluded the lecture with a number of illustrative prescriptions, including the following:

An extremely useful mixture for the relief of *irritable cough*, and especially of the troublesome post-influenzal cough, consists of morphine hydrochloride $\frac{1}{24}$ grain, heroin hydrochloride $\frac{1}{24}$ grain, apomorphine hydrochloride $\frac{1}{48}$ grain, dilute hydrochloric acid 5 minims, syrup of Virginian prune ½ drachm, and chloroform-water to half an ounce. This constitutes the tablespoonful dose, which should be taken every four hours. The medicine is very palatable.

A most useful prescription for the relief of *the pain of sciatica* consists of novaspirin 7 grains, pyramidon 6 grains, quinine salicylate 1½ grains, and codeia ⅓ grain. This is prescribed in a cachet, which is to be taken every four hours.

A simple but effective medicine for the relief of *ordinary headache* consists of ammonium bromide 10 grains, phenazone 10 grains, caffeine citrate 5 grains, and chloroform-water 1 fl. oz. This constitutes a single dose, which, as a rule, rapidly relieves the headache, but if necessary it may be repeated in two hours.

A most effective combination for the internal treatment of *acute and subacute gout* is a pill containing colchicine $\frac{1}{60}$ grain, sugar of milk ½ grain, extract of nux vomica ¼ grain, extract of hyoscyamus ½ grain, and extract of gentian sufficient to make the pill. The object of the sugar of milk is to allow the colchicine to be triturated with it before working it up with the extracts, as otherwise the minute amount of the alkaloid would not be evenly diffused throughout the pill-mass, and so the risk of a poisonous dose of colchicine getting into one pill might be incurred. One pill is to be taken every three or four hours, according to the severity of the attack, which is rapidly relieved by this treatment.

Gastric flatulence is a very common and annoying ailment, for which almost immediate relief can be obtained by a mixture containing in each dose aromatic spirit of ammonia 25 minims, spirit of chloroform 15 minims, spirit of peppermint 12 minims, and spirit of cajuput 8 minims. This combination constitutes a teaspoonful dose, which is to be taken in a wineglassful of water whenever the flatulence is troublesome.

For external use in *the relief of pain*, whether due to fibrositis, neuritis, or neuralgia, the following combination is most useful: Chloral hydrate 6 drachms, camphor 6 drachms, and menthol 3 drachms are well rubbed together in a mortar, when the three solids form a liquid without the addition of any fluid. This liquid should be painted over the painful area and gently rubbed in, when rapid relief from the pain is usually obtained.

It would not be surprising if, a few years hence, Dr. Luff discovered that each and all of these are ready-made articles to which his name is applied, just as the late Sir A. B. Garrod's is to a lozenge now manufactured and sold by the ton.

PRESCRIPTION PROBLEM.

WE have received a large number of postcard solutions of the problem in prescription-reading which we published in the *C. & D.*, February 28, p. 73. The correct reading is as follows:

Acet ether
Tr iod aa ʒss
Sig + ♏5 to Oj of hot water

The peculiarity of the prescriber is the use of the plus sign to indicate "add," and we were somewhat surprised that five competitors were able to give the correct transcription. The following sent in their replies first from the respective districts or countries:

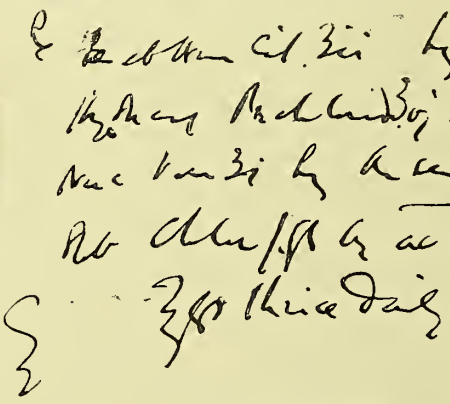
London District.—Mr. G. Dauncey, 6 Nugent Terrace, St. John's Wood, N.W.

Scotland.—Mr. H. R. Couldrey, c/o Peebles & Whyte, 99 Dunnikier Road, Kirkcaldy.

Ireland.—Miss B. R. McMichael, Ballycastle, co. Antrim.

To each of these we award a copy of any one of our books other than "Pharmaceutical Formulas" and Wootton's "Chronicles," and shall be glad if the successful competitors will let us know their choice.

The following prescription forms the subject of the next competition. Postcards should be posted not later than April 4. Prizes will be awarded at the discretion of the Editor, and in case of close competition the time of posting will be taken into account:



PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. John Morgan Richards is at present in New York.

Mr. W. J. Aires, representing Sangers, has removed to 262 Lillie Road, Fulham, London, S.W.

Mr. Max Muspratt, F.C.S., of Liverpool, is the Liberal Parliamentary candidate for Wolverhampton.

An Advertisement in regard to a vacancy which will occur shortly on our editorial staff is inserted in the Coloured Supplement this week.

Miss Doris Laycock, daughter of Mr. James Laycock, pharmacist, of 297 New King's Road, Hurlingham, S.W., has been awarded a three years' Classical Scholarship at Newnham College, Cambridge.

BIRTHS.

Authenticated notices are inserted without charge.

Carter.—On March 19, the wife of Thomas Hanson Carter, pharmacist, Newport, Salop, of a daughter.

Frank.—At 75 Northolt Road, Harrow, on March 25, the wife of Ralph C. Frank, pharmacist, of a daughter.

MARRIAGE.

Authenticated notices are inserted without charge.

Stroud—Niblett.—At Leicester, on March 21, Sydney Hartnett Stroud, Ph.C., A.I.C., to Beatrice, third daughter of the late Mr. G. W. Niblett.

DEATHS.

Authenticated notices are inserted without charge.

Boyce.—At the Orchard, Chertsey, Surrey, on March 18, Mr. George Boyce, J.P., Ph.C., aged eighty-one. Mr. Boyce, who was a native of Egham, succeeded to the pharmacy established by his father at Chertsey in 1833. He was intimately connected with the public business of Chertsey, being its first county councillor. After six years on the County Council he was elected an alderman, relinquishing the honour owing to increasing deafness. He was appointed on the Commission of the Peace in 1894, and a local paper says he must have adjudicated hundreds of times more than any other magistrate on the Bench. Other offices held by Mr. Boyce included a Governorship of Sir Wm. Perkins' School, Commissioner of Taxes for the Hundred of Godley, and Chairman of the Chertsey Market Feoffees. He was also a friendly-society worker, being both a Forester and an Oddfellow. His principal recreation was chess. Mr. Boyce celebrated his golden wedding in June 1912. His widow and a daughter survive him. The funeral took place on March 21.

Coates.—At 56 Comiston Drive, Edinburgh, on March 19, Mr. Joseph Coates, chemist and druggist, a director and senior representative of Messrs. Raimes, Clark & Co., Ltd., wholesale druggists, Edinburgh, aged sixty-six. Mr. Coates was one of the best-known and best-liked drug-travellers in Scotland, and his death has come as a personal loss to many in pharmacy. He had been in indifferent health since November, but it was not until the beginning of this month that the illness was considered to be serious. Then it took a turn for the worse, and his strength ebbed until the peaceful end on Thursday of last week. Mr. Coates was a native of New Shildon, co. Durham, and served his apprenticeship with Messrs. Mandall & Co., Stockton-on-Tees. He had just reached his majority when the Pharmacy Act, 1868, passed, and in due course he entered for the Modified examination and qualified in October 1870. In the following year he went north to take up the northern ground of Scotland for Messrs. Raimes, Blanshards & Co., and at once became a general favourite, his handsome appearance, charming personality, and knowledge of the business contributing to his success. He married and set up his home in Perth, whence he was wont to take his journeys, some of them on horseback (for he dearly loved a horse). In 1879 he left the Smith's Place firm, and subsequently represented Messrs. Ismay & Sons, Newcastle-on-Tyne, and Messrs. John Mackay & Co., Edinburgh, also having a business of his own; but after ten years he returned to the Smith's Place business, which had by then become Raimes, Clark & Co., and thus from 1889 to his death he continued on his former ground, with his residence in Edinburgh, as he desired his family to have the advantage of the educational facilities there. His son, John Randall Coates, in 1895 graduated at the Edinburgh University as M.B., C.M., and M.D. in 1899. Dr. Coates held several hospital appointments, and was a civil surgeon in the South African Field Force during the Boer War, before he commenced practice in Horwich, Lancs. He was the principal mourner at his father's funeral at Morningside Cemetery on Saturday, March 21, the company also including Dr. Thornton (Dundee), son-in-law; Dr. George Coull, Mr. D. W. Nicolson, Mr. J. P. Gibb, and Mr. D. H. Sclater (directors of Raimes, Clark & Co., Ltd.); Mr. Peter Strang (Perth); Mr. William Doig and Mr. John Hodge (Dundee); Mr. J. B. McLaren (Kirkcaldy); Mr. Peter Boa (Edinburgh); Mr. John Harkness (Harkness, Beaumont & Co., Edinburgh); Mr. Somerville (Duncan, Flockhart & Co.); Mr. Officer (J. F. Macfarlan & Co.); Mr. Bannerman (John Mackay & Co.); and the heads of departments in Raimes, Clark & Co., Ltd. Many wreaths were sent, among others by the directors and employés at Smith's Place, and by the chemists of Kirkcaldy.

Mr. J. Coates.

Hands.—At King's Norton, on March 16, Mr. Charles William Hands, aged seventy-eight. Mr. Hands was for over forty years on the representative staff of Messrs. W. J. Bush & Co., Ltd., Ash Grove, London, but had been living in retirement for some years.

Hughes.—At a Liverpool nursing home, on March 12, Mr. Thomas John Hughes, chemist and druggist, the Pharmacy, Bangor Road, Penmaenmawr, aged forty-two. Mr. Hughes had a very brief illness, and the news of his sudden death after a serious operation created quite a gloom among his large circle of friends. The funeral, which was private, took place on March 14. The coffin was covered with beautiful floral tributes. He leaves a widow.

King.—On March 23, Mr. Horatio Alfred King, Ph.C., 38 Exchange Street, Norwich, aged fifty-nine. Mr. King was articled as an apprentice to his father. He afterwards went to Bury St. Edmunds, and on his father's death succeeded to the Exchange Street business. He qualified in 1872, passing the Major examination in 1879. He also carried on business as an optician, his skill in eyesight-testing being widely recognised. Mr. King was churchwarden for twenty-five years at St. John's, Maddermarket. He also belonged to the Science Gossip Club and to the Norfolk and Norwich Naturalists' Society. He was well known in Masonic circles, being a member and organist of Social Lodge No. 83 and Sincerity Lodge No. 943. He filled the chair of the former Lodge in 1904, and received the rank of Prov. Grand Organist in 1905. He also took great interest in Royal Arch Masonry, and had occupied the principal chair in Cabbell Chapter, No. 807, holding at the time of his death the position of I.P.Z. He had always entertained a great love for music, subscribing to any movement which made for the advance of the art in the city. The funeral took place on March 25.

Whalley.—At his residence, Quaker Cottage, Darley, Leeds, on March 5, Mr. John Whalley, retired chemist and dentist, formerly of Hollinwood, aged eighty-six. Mr. Whalley's death was due to bronchitis following a slight chill. Mr. Whalley was in business for over fifty years, and in his retirement at Darley his experience as a veterinary expert was frequently requisitioned. He leaves a large family, having been married three times. The interment took place at Shipley.

WILLS PROVEN.

Mr. Alfred Edwards Evans, chemist and druggist, Bryn Villa, Brynmawr, who died on February 16, left estate valued at 1,740*l.* 13*s.* 10*d.* gross, with net personalty 1,575*l.* 9*s.* 7*d.*

Mr. Matthew Tayler Chater, chemist and druggist, The Square, Market Harborough, who died on February 20, left estate of the gross value of 6,382*l.* 19*s.* 7*d.*, of which 2,297*l.* 3*s.* 4*d.* is net personalty. Probate of his will has been granted to his cousin, Miss Fanny Louisa Kirby, and his sister-in-law, Mrs. Elizabeth Chater, power being reserved to grant probate also to the Rev. Wyndham Colin Bryan. Among the bequests is one of 100*l.* to his warehouseman, Abraham Montague, or his issue if deceased, while the residue of his property is left equally between his cousin and his sister-in-law.

TRADE NOTES.

The Supply of Artificial Limbs.—Messrs. J. S. E. Ferris, 33 Museum Street, New Oxford Street, London, W.C., makers of artificial limbs and appliances, make an offer to chemists of catalogues, etc.

Harlene Bonus Scheme.—Particulars of this scheme will be obtainable shortly from Edwards' "Harlene" Co., 20-26 Lamb's Conduit Street, London, W.C. See the company's advertisement in this issue.

Liquid Paraffin for internal use must be of the purest quality. Messrs. Burgoyne, Burbidges & Co., Coleman Street, London, E.C., devote their advertisement in this issue to this product, both plain and flavoured.

Saturday Hours.—From April to September inclusive the offices and warehouses of Messrs. C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, London, E.C., will close each Saturday at 1 o'clock instead of 2 o'clock.

Nasulwa.—Messrs. Clough & Firth, Ltd., Harrogate, are introducing a new series of toilet preparations under this name, which are made with medicinal sulphur-water. An inaugural offer is referred to in the company's announcement.

"The Age of Risks" is the title of a new booklet issued by Messrs. Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. It deals with "first-aid" required in accidents which happen in all walks of life, and contains practical hints and directions for meeting these emergencies.

P.A.T.A. Prices.—The additions to the Protected List during March are: "Allenburys" Byno-Chrismol; Dearborn's additional preparations; Dralle's additional preparations; Fru-Muthol; Gregory's preparations; Ingram's bed and cot sheets; Dr. Lyon's tooth-powder; No-Germs; Parke, Davis & Co.'s petroleum emulsion with hypophosphites; J. D. Riedel Co.'s preparations; and To-Kalon additional preparations. The following have been removed: Christy's Poudre and Powdo; Ford Shapland's salvo-paper.

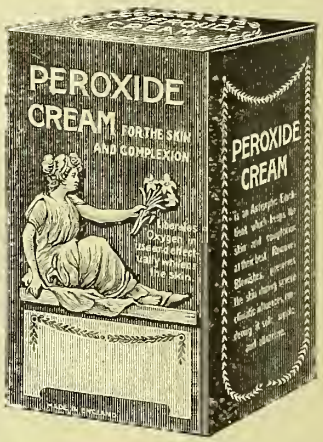
Avenue Glass Bowls.—Mr. H. A. Wanklyn, 17 Manchester Avenue, Aldersgate Street, London, E.C., sends us samples of the "Avenue" glass bowls for pins or paper-fasteners. These are little flat bowls, 3 in. in diameter, with curved-in edges which form convenient receptacles for the desk. They are sold filled with either pins or paper-fasteners, and for show-purposes an ingenious idea of a transparent flexible gelatin covering has been adopted. This covering keeps the contents dust-free when shown on the counter or in the window, and prevents the trouble which would be caused if the bowls were upset. The "Avenue" glass bowls, filled, retail at 7*d.* each.

Saluric Salt.—Messrs. Blyton, Astley & Co., Eagle Laboratories, Lower Broughton, Manchester, send us a sample of Saluric salt which they make as a rheumatic remedy. The salt in packed in wide-mouthed saline-bottles of a distinctive shape and with artistic labels which give character to the preparation. On the outer carton, which is also characteristic, are given the directions for using the salt in cases of rheumatism and gout and in liver and kidney disorders. The analysis given indicates the composition. Saluric salt retails at 1*s.* 6*d.* a bottle, with the wholesale price at 10*s.* 6*d.* a dozen, with a further bonus on three-dozen quantities. Showcards and counter-bills are supplied.

Santrocyl is the name which Messrs. Mawson & Co., medical capsule makers, West Norwood, London, S.E., give to a special combination of anti-venereal remedies which they issue in the form of capsules and perles. These are hand-made, the perles having a capacity of 5 minims and the capsules of 8 minims; in each case the volume is guaranteed, the cost to the retailer being: *Capsules*, 10*s.* per doz. boxes of 24, and 14*s.* per doz. boxes of 36; *perles*, 9*s.* per doz. boxes of 36, and 12*s.* 6*d.* per doz. boxes of 50. The firm also manufacture all other kinds of medicinal capsules, and they are obtainable from wholesalers, such as Messrs. May, Roberts & Co., Ltd., and Messrs. Barclay & Sons, Ltd.

Developing and Printing.—With the approach of the photographic season the Express Developing Co., enlargers and printers to the trade, 86 High Street, Whitechapel, London, E.C., remind us that owing to the increase of their business the space devoted to photographic developing and printing has been increased with a view of enabling the company to maintain their reputation for promptness in the execution of orders. The prices charged show a profit of 33⅓ per cent. to the trade, as carriage and postage are paid on all orders. We are asked to state that every kind of photographic work is undertaken, such as lantern-slides, postcard photographs, miniatures, and retouching. Framed enlargements are supplied free for advertising-purposes.

Peroxide Cream is a new addition to the Wedgwood and Naiad series of packed specialities which Evans Sons Lescher & Webb, Ltd., have produced. The cream is one of the vanishing type, snow white in appearance, and when rubbed on the skin it not only disappears, but is cooling and refreshing, leaving the desired soft feeling, and from the nature of its composition it is calculated to remove tan and chapping. The cream is put up in oval glass jars with aluminium screw top, and is finished with labels in Wedgwood style and enclosed in a carton of the same artistic design, as may be seen by the engraving. The cream costs the retailer 7*s.* 6*d.* per dozen on the Evans terms, and can be obtained from the Liverpool house or from 60 Bartholomew Close, London.



THE EASTER HOLIDAYS.

The following are the arrangements for Easter made by various business-houses in London:

Closed from the evening of April 9 to the morning of April 14.

Allen & Hanburys, Ltd., Bethnal Green, E. (Urgent orders filled at Plough Court, E.C., and Vere Street, W.)

Barclay & Sons, Ltd., 95 Farringdon Street, E.C.

Arthur Berliner, 15 and 17 Worship Street, E.C.

Burroughs Wellcome & Co., Snow Hill Buildings, E.C.

Thos. Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, E.C.

Duncan, Flockhart & Co., 143 Farringdon Road, E.C.

S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

May, Roberts & Co., Ltd., 7, 9, and 11 Clerkenwell Road, E.C.

F. Newbery & Sons, Ltd., 27 and 28 Charterhouse Square, E.C.

Parke, Davis & Co., Beak Street, Regent Street, W.

F. Schutze & Co., Ltd., Black Bull Works, Caledonian Market, N.

T. & H. Smith, Ltd., 22 City Road, E.C.

Thos. Tyrer & Co., Ltd., Stirling Chemical-works, Stratford, E.

Closed on Good Friday and Easter Monday, but not on April 11.

The British Drug Houses, Ltd., 22 to 30 Graham Street, City Road, N.

Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

Wright, Layman & Umney, Ltd., 44 to 50 Southwark Street, S.E.

W. B. Cartwright, Ltd., Rawdon, near Leeds, will be closed from the evening of April 9 to the morning of April 14, but urgent orders will be attended to on April 11.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Panel Chemist Types.

The Pugnacious.

I'm up against the Government, I'm up against the Law,
I'm not the kind of pharmacist to rub up on the raw;
I'm up against, on principle, all progress everywhere,
And, if Woolcock isn't careful, I'll be up against the Square.

For, of course, the Act is rotten, and the payment is absurd,
And the panel doctors tremble when they hear my spoken word;
And they talk of placing safeguards on the medicine's purity,
But I'd like to see the man who'd come and try inspecting ME.

Last Day for Account-rendering—March 31.

The Insurance Commissioners (England) have informed Insurance Committees by circular in regard to provisional settlement with doctors, chemists, and others for the year which ended on January 11, 1914, that they are in a position to recalculate the credits to Committees on bases which, though not final, will be the minimum amounts available to each Committee for the purposes of Medical Benefit during the year, and Committees will, when advised of this credit, be in a position to effect a settlement with their doctors, chemists, etc., in respect of that year, subject, of course, to any further payment which may be made in the event of the credit to the Committee being increased when the information is available of any further sums credited to Societies, upon a calculation of their mean membership. The Commissioners add: "It is essential, as a preliminary to any settlement, that proper steps should be taken to secure the submission of all outstanding accounts chargeable to the funds available for Medical Benefit for the past year. To assist Committees in this connection the Commissioners have formally appointed . . . March 31, 1914, as the date by which the statements referred to in those articles must be submitted." It is also added that Insurance Committees *will be unable to accept responsibility for payment in respect of any accounts submitted later than* March 31. Panel chemists have already been notified by their Committees, and they may take this as a reminder.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

Ayrshire.—At a meeting of the County Insurance Committee at Ayr on March 21, Provost Jamieson submitted the report on the administration of Medical Benefit for the past year, stating that the chemists, through the South Ayrshire Pharmaceutical Association, are insisting upon a revision of the Drug Tariff, and it is expected that substantial alterations will be made during the current year, better terms being given to chemists. They have agreed to remain on the panel until July only. The number of chemists on the panel is fifty-eight, and the number of prescriptions dispensed, taking the actual prescription-forms only, was 70,446, while the total amount of chemists' accounts as rendered for the year was 2,244*l.* 13*s.* 9*d.* The average amount of each prescription, taking the total at 70,446, was 7.6*d.* Taking the average number of insured persons at 61,000, the average cost per person for drugs and appliances was 1*s.* 2.3*d.*

Berwickshire.—The Clerk to the County Insurance Committee, in his first annual report, states that during the year 5,345 prescriptions were dispensed by the chemists at a cost of 243*l.* 14*s.* 11½d. The average cost per prescription is 10.94*d.* The cost of the stock supplied to doctors for emergency use was 9*l.* 1*s.* 10½*d.*, which makes a total of 252*l.* 16*s.* 10*d.* for drugs and appliances supplied by chemists during the year. The cost per prescription varied from ½*d.* to 34*s.* 9*d.* Eighteen chemists are on the panel, but seven only are resident in the county. The average of the accounts of the resident chemists was 31*l.* 12*s.* 6*d.* The average cost of drugs, etc., per insured person was about 1*s.*

Breconshire.—At the last meeting af the Insurance Committee, the Clerk, in reviewing the chemists' accounts for the year, pointed out that there were no chemists in Abercrave and Cefncoed, and that in Sennybridge the chemist was not on the panel. The total number of the prescriptions dispensed by the chemists numbered 21,416—viz., first quarter, 6,184; second quarter, 5,268; third quarter, 4,600; and fourth quarter, 5,364. The average cost per prescription was about 8¼*d.*, but this differed in various parts of the county. In Brecon it was 9*d.* and in Brynmawr a trifle over 7½*d.*, while in the Ystradgynlais area the average was 1*s.* 2¾*d.*, or nearly double the average at Brynmawr. In Brecon, with five doctors, 2 696 insured persons on their list provided 5,926 prescriptions; while in Brynmawr, where five doctors had a total panel of 253 less, no fewer than 8,339 prescriptions were given, or 2,413 more than in Brecon. In Ystradgynlais 1,109 insured persons consumed 1,713 prescriptions. [This works out at 2*s.* 1½*d.* per head in Brynmawr, 1*s.* 10.7*d.* in Ystradgynlais, and 1*s.* 7.8*d.* per head in Brecon. The low cost of prescriptions in Brynmawr is thus more than counterbalanced by their large number.—Editor.] Dispensing doctors have been paid 366*l.* for drugs. Payments to chemists were passed amounting to 236*l.* for the quarter.

Cumberland and Westmorland.—Mr. F. B. Bennett (Whitehaven) presided at the annual meeting of the Cumberland and Westmorland Chemists' Association on March 18, when members were present from Whitehaven, Harrington, Maryport, Cockermouth, Keswick, and Workington. The Secretary (Mr. T. W. Townley), in his annual report, stated that there are now fifty-nine names on the list of chemists. Five of these are limited companies. One store joined the first panel, but had disappeared from the second list. This year two Haltwhistle chemists had added their names, and three others had been removed. Carlisle, Wigton, Maryport, and Workington are the only towns in the county where every chemist has not joined the panel. So far there has been no real difficulty for insured persons obtaining medicine at any hour, night or day. The one-mile limit had been settled. The Medical Committee supported chemists in stopping repeat prescriptions and in duplicate prescriptions being issued in all cases. The Pharmaceutical Insurance Sub-Committee has been formed on the territorial basis. The Chairman, Vice-Chairman, and Secretary had been appointed members of the Pharmaceutical Service Sub-Committee, and the Chairman and Secretary on the Joint Services Sub-Committee. This year 90 per cent. of chemists' accounts were to be paid on receipt, instead of 75 per cent. as last year. Prescriptions during the first three quarters were as follows (the fourth being still under check at Bloomsbury):

Quarter ended	Number.	Amount Claimed. £ s. d.	Allowed. £ s. d.
April 12, 1913 ...	... 31,802	993 19 2	934 4 3
July 12, 1913 ...	... 28,323	948 10 1	929 10 0½
October 12, 1913	... 27,273	996 10 10½	984 10 0½

All accounts have been paid up in full to October 12, 1913.

Chester.—The amount provisionally credited to the local Drug Fund is 924*l.* 2*s.* 9*d.*, and chemists' accounts for the year total 1,288*l.* 4*s.* The Drug Suspense Fund amounts to 308*l.* 0*s.* 11*d.*, and thus just meets the deficiency, leaving a small balance of 3*l.* 19*s.* 8*d.* The number of insured persons on January 12 was 13,759.

Dorset.—The Insurance Committee on March 13 were informed that the chemists' accounts for the quarter ended January 11 have been checked, a few deductions being made by the Pharmaceutical Committee. The number of prescriptions dispensed was 21,820, costing 676*l.* 15*s.* 5*d.*—an average price per prescription of 7.44*d.* The 1*s.* 6*d.* per insured person will not only discharge the total cost of the prescriptions during the year, but leave a considerable balance to be carried to next year's account, permitting the distribution of the whole of the Drug Suspense Fund among the panel practitioners. Chemists' accounts have accordingly been paid in full to the end of the year, including the 10 per cent. brought forward. An application from the Pharmaceutical Committee for an allowance equal to ½*d.* per insured person for administrative expenses was granted, subject to the Pharmaceutical Committee's accounts being produced for inspection by the Insurance Committee at the end of the year. Mr. R. H. Groves, Ph.C., said he did not think there was any objection to the latter condition, providing that chemists are not treated differently from doctors.—A circular issued by the County Pharmaceutical Committee advises that an agreement has been made with panel practitioners allowing repeat mixtures on the understanding that the date of the original prescription is always added, and hoping that the chemist holding the original will readily supply a copy whenever asked for, whether by another chemist or a company manager. The question of correct charge for 1½ dr. of tincture has been discussed, the matter being referred to Mr. Woolcock, who advised that 1½*d.* is the correct charge and in accordance with the Tariff agreement. The pricing of the Dorset Pharmacopœia had also been revised, and a slip of the revised prices is to be sent when the Medical Committee have agreed to the alterations. The Secretary (Mr. J. W. Cussons) adds that for quantities other than those priced for, the correct way to arrive at an altered quantity is to deduct the amount of dispensing-fee, add or deduct according to the proportion of alteration, and then replace the dispensing-fee.

Edinburgh.—At a meeting of the Burgh Insurance Committee on March 19, the Medical Benefit Sub-Committee reported that during 1913-14 150,165 prescriptions were dispensed, at an average cost of 10½*d.* per form. The drug accounts amounted to 6,374*l.* 11*s.* 6½*d.* For the first month of the year the amount was 478*l.* 4*s.* 7*d.*: it fell in July to 393*l.* 4*s.* 5*d.*, and increased thereafter until December, when the drug-bill was 686*l.* 18*s.* 3*d.* "The most satisfactory fact" (the Sub-Committee added) "that emerges is that the Drug Fund will be sufficient to meet all claims arising during the first year of the operation of the Act within the Edinburgh area." The Sub-Committee agreed to recommend that "proprietary" articles ordered as medicine should not be paid for, and that chemists should again be instructed to refuse to dispense "repeat" prescriptions. The Committee's instructions that all prescriptions must be written out in full is only being carried out to a limited extent. As many as 25 per cent. of the forms of one panel doctor are repeats, and the Sub-Committee say that this practice could be stopped by each chemist refusing to dispense the prescription when it is not fully written out.—Edinburgh chemists have received 75 per cent. of their Insurance accounts for the month ended March 15.

Essex.—At the Insurance Committee's meeting on March 17, a report on the Drug Fund (*C. & D.*, March 7, p. 51) was presented in an amended form. This showed that during the year 732,405 prescriptions were dispensed by chemists, the total amount allowed for these by the Committee being 21,517*l.* 6*s.* 7*d.* The average price per prescription was 7.05*d.* At the end of the year there were 220,300 insured persons upon medical lists, and excluding those dispensed for by practitioners, the average cost for drugs and appliances of the prescriptions per insured person works out at 2*s.* 1.05*d.*, and the ratio of prescriptions to insured persons upon the lists was 3.56. A recommendation from the Medical Benefit Sub-Committee was also adopted that application be made to the Commissioners for authority to allot a sum not exceeding ½*d.* in respect of each insured person entitled to obtain medical attendance and treatment from practitioners on the panel to the Panel and Pharmaceutical Committees for the period to end July 15 next, the sum to be allotted to each Committee to be determined hereafter. The attention of these two Committees is to be called to the expense incurred by the Committee in connection with the checking of the chemists' prescriptions. They are also to be asked to consent to a deduction from the above sum in respect thereof.

Grimsby.—It has been decided to call a meeting of the Insurance Pharmaceutical Committee at an early date and to apply conjointly with the doctors for the ½*d.* per head of insured persons up to July 15. A statement of expenditure has been placed before the Insurance Committee for approval. The pharmacists' representatives on the Insurance Committee report that the final payment of accounts will probably be made next week.

Hamilton.—The Burgh Insurance Committee reports that the largest number of prescription-forms presented to a chemist in 1913 was 7,112, and the lowest 1,771. The largest sum paid to any one chemist was 257*l.* 10*s.* 11½*d.*, and the lowest 53*l.* 16*s.* 9*d.* The average for each prescription was 8½*d.*, highest 9*d.*, lowest 6¾*d.*

Hampshire.—The Itchen District Committee has recommended the Insurance Committee to schedule the whole of the Itchen District as Urban.

Hertfordshire.—At the meeting of the Insurance Committee on March 23, the Clerk submitted a letter dated March 3 from the County Pharmaceutical Committee, calling attention to the arrangement in London by which a Joint Committee was responsible for the arrangements as regards prescriptions, the total expenses being equally divided among the three parties concerned. The Clerk stated that he was unable to recommend the appointment of a Joint Checking Committee. The Insurance Committee has prescriptions checked by a duly qualified pharmacist. The establishment of such a Joint Committee would mean additional administration expenditure, and if the individual members of the Committee themselves checked the prescriptions it would mean that they would be employed thereon continuously for several days. If the Joint Committee is merely to register the checking of the expert, there appears to be no object in interposing this Joint Committee between the checker and the Insurance Committee. The Secretary of the Panel Committee had notified that he has not yet had an opportunity of laying the proposal before his Committee, but felt sure that the Panel Committee has every confidence in the Insurance Committee's arrangements, so that there would not be any necessity for the formation of a special Joint Committee, as advocated by the Pharmaceutical Committee. A recommendation that no action be taken on the matter was carried.

Kesteven Lincs. The Clerk reported to the Insurance Committee on March 21 that the number of chemists on the panel is thirty-one, as against thirty-three the previous year. Arrangements had been made between the Sleaford chemists for one shop to be opened for dispensing on the early-closing day (Thursday) between 6 and 8 P.M. The Drug Tariff as amended by the omission of a copying-fee for prescriptions and certain of the "Notes for Dispensers" was adopted. Mr. W. Dennis, chemist, Saxilby, who omitted to make application to be placed on the panel during the provisional period ending April 14, 1913, asked that prescriptions dispensed during that period should be paid by the Committee. It was recommended that the chemist be permitted to send in the usual account. It was stated that the new form of prescription-book had been approved by the Commissioners. The Executive Sub-Committees's summary for the past six months showed an expenditure of 252*l.* 15*s.* 6*d.* in respect of drugs supplied by chemists and practitioners.

Leeds.—At the meeting of the Insurance Committee on March 19, Mr. G. F. Kelly, in moving the minutes of the Medical Benefit Sub-Committee, read the following letter sent by him on March 3 to the Chancellor of the Exchequer:

"I am desired by the Leeds Insurance Committee to communicate with you with reference to the deficit in the Committee's Drug Fund for the past medical year. I am to ask you to please be good enough to make arrangements for the provision of supplementary funds from the Treasury. The Committee have been compelled to restrict the supply of expensive medicines, and have declined to allow phylacogens, salvarsan, and other similar remedies to be provided for insured persons owing to their considerable expense, although the same have been strongly urged by the medical profession on the Committee. The large deficit on the Drug Fund would not allow these remedies to be prescribed. Moreover, the Committee have had expert evidence showing that many of these remedies are very effective, and would really effect a cure where others have failed. The Committee feel that it would be a crime for any class of human beings to be debarred from the benefits of the best remedies."

The acknowledgment of its receipt, dated March 4, stated that "it shall receive attention." Dr. Towers, in the course of the discussion, quoted from a speech by Mr. Lloyd George last August, in which he stated that insured persons are getting under the Act "as pure and potent medicines as the richest duke," the doctor adding that, unless the necessary remedies are provided, doctors cannot fulfil their obligations to their patients. Dr. Bell also spoke, and Dr. Dennison suggested, in an interrogatory, that dispensers leave out expensive drugs.

London.—The Insurance Committee met on March 26, when payments to chemists were passed amounting to 3,053*l.* for the year 1913 and 916*l.* for 1914. A further 70*l.* 9*s.* 4*d.* had been paid from the Sanatorium Benefit Fund for drugs and accessories supplied between June 1913 and March 1914. The report of the General Purposes Sub-Committee included orders of reference to the Pharmaceutical Service Sub-Committee and the Joint Services Sub-Committee. They embody the provisions of Medical Benefit Regulations 46 and 47. It was stated that Mr. John Keall and Mr. W. J. U. Woolcock had been appointed pharmacists' representatives on the Joint Services Sub-Committee. The Pharmaceutical Committee had requested an allocation of 2,975*l.* for administration expenses. The General Purposes Committee suggest that this amount be reduced by 300*l.*, as they "understand that neither the Act nor the regulations contemplate any sum being allotted for the purpose of payment of members of the Pharmaceutical Comittee." The Panel Committee has also asked for 3,080*l.* The amount estimated to be available for the two Committees is 6,250*l.* The Pharmaceutical Service Sub-Committee reported that complaints against three panel chemists had been considered and referred to the Joint Services Sub-Committee, as they appeared to involve questions relating to panel practitioners. The Joint Services Sub-Committee met subsequently on March 6. The first complaint was by an insured person, who presented a prescription on January 28 to a chemist on the panel, who stated that he was unable to dispense the prescription as he had not certain of the required ingredients in stock. Another chemist was also unable to dispense the medicine, but sent to the practitioner requesting him to write one of the items in detail. This, however, the practitioner declined to do, and instructed the patient to take the prescription to another chemist, which, however, he was unable to do as the chemist's place of business was then closed. Inquiries addressed to the chemists concerned resulted in one of them replying that he was unable to prepare the medicine on the evening in question in view of the fact that the prescription included a formula taken from the British Pharmaceutical Codex, of which he had not a copy. He informed the patient that he would have the medicine ready by the following morning, but this arrangement was not acceptable to the insured person. He then addressed a request to the practitioner by whom the prescription had been furnished, asking him to write the formula in full, and informed the patient that he would await his return. He waited until 11.30 P.M., but as the patient had not returned he concluded that the medicine had been dispensed by another chemist. The Sub-Committee thought that "the case would be adequately met by an intimation being conveyed to the chemist that he should possess a copy of the British Pharmaceutical Codex, and also any other publication which is ordinarily necessary." Another complaint was also considered which had been made by the Secretary of an Approved Society, and referred by the Medical Service Sub-Committee. It appears that a liniment prescribed by a practitioner on the panel had a deleterious effect on the patient, who was suffering from arthritis; its application resulted in the formation of an abundant pustular rash, swelling, and pain. An analysis indicated that the liniment was prepared in accordance with the prescription furnished by the practitioner. Further, the Sub-Committee had been advised that the liniment as ordered was appropriate to the treatment of arthritis, and they found, therefore, that no blame attaches to either practitioner or chemist.—The Finsbury Borough Council had before them on March 20 a complaint by an insured person of inaccurate dispensing. The latter, noticing a difference in the effect of the mixture prescribed by his panel doctor, complained to the local medical officer of health, who had the medicine analysed by the public analyst. Dr. Lauzun-Brown (Chairman of the Public Health Committee) said the matter would shortly assume serious aspects. At present the Committee were of the opinion that it did not come within their province to deal with the matter. The prescription consisted of aspirin ʒij., aq. chloroform. ℥viij. The medicine upon analysis was found to contain in one case only 57.7 grains of aspirin, and a second bottle only 94.8 grains. Mr. Foulger said the Insurance Committee ought to protect the public against such "daylight robbery." Mr. Garrity asked why the name of the chemist was not given in the Public Health Committee's report to the Council. It ought to be there. Alderman E. Howes: Not until he is convicted. Mr. Garrity: It ought to be before this Council, conviction or no conviction. This is not a case of adulteration, but absolute fraud. Dr. Lauzun-Brown said the matter had been dealt with as it affected the Borough Council and as a case of first instance. He added that he had heard mentioned that the London Insurance Committee were about to approach the Borough Councils on this subject, and in that case the Councils could arrange terms with the Insurance Committee for these analytical samples. It was resolved to send the particulars of the case to the Insurance Committee, with a request for their attention thereto, and, further, to ask the Committee to pay the public analyst's fee.

Plymouth.—At the meeting of the Insurance Committee on March 27, the Medical Benefit Sub-Committee reported that the following resolutions had been adopted as the result of a conference relative to the expense of prescribing in Plymouth:

"That the members of the conference are of the opinion the excessive drug-bill is due to lavish prescribing on the part of practitioners on the panel, and suggest that attention of the doctors be called to the following facts:—

"That it is found that expensive liniments are prescribed in quantities greatly in excess of what is believed to be the needs of the case.

"That proprietary preparations should never be ordered except for special reasons when there are equivalents among the official formulæ, as this also appears to be the cause of needless expense.

"That more care might be exercised in the quantities of surgical dressings and bandages ordered.

"That the doctors' attention should be called to the fact that if charges of wasteful prescribing are successfully preferred against them, they may be surcharged with the cost.

"That the conference further considers that a small saving might be effected by the use in dispensing of distilled water only when expressly prescribed or where the prescription necessarily involves its use."

The Sub-Committee also asked, in view of the serious position of the chemists in the Committee's area, that the Commissioners be requested to state what steps they are prepared to take to meet the serious financial needs of the position.

Salford.—The Insurance Committee on March 19 had before them a resolution from the Manchester and District Association of Secretaries of Approved Societies and Branches of February 27, "That the present system for dispensing of the Medical Benefit in Salford has been an unqualified failure, and therefore call upon the Salford Insurance Committee to inquire as to the advisability of establishing a full-time medical service at an early date." Mr. Jennings moved that a special committee should be appointed to inquire as to the desirability of establishing a full-time service, but an amendment that a committee be instructed to inquire into the present system of dispensing Medical Benefits in Salford was carried.

Sheffield.—Panel chemists are anxiously waiting for the settlement of last year's accounts. In this connection the following particulars are of interest as showing the large increase in the cost per prescription:

	No. of Prescriptions.	Average cost.
1st quarter	139,098	6.04*d.*
2nd quarter	130,484	7.39*d.*
3rd quarter	121,094	7.88*d.*
4th quarter	123,405	8.95*d.*
Total	514,081	

The claims amount to 16,098*l.* 6*s.* 6*d.*, from which some deductions may have to be made for errors on checking, the average for each shop being 195*l.* A complaint was made in regard to the notice-board asking for prescriptions to be left at the shop of a drug-store in Bramall Lane (*C. & D.*, March 21, p. 59), and it has been removed.

Surrey.—The Finance Committee, in a report submitted to the Insurance Committee on March 25, stated that their small Sub-Committee informed them that the schedules of payments to be made to doctors and chemists were not ready for submission, and that many caluculations and much labour are entailed in the preparation of the schedules. They recommend the payment of the balances of chemists' accounts from August to December 1913 after the schedule of accounts has been examined by the Sub-Committee, and that particulars be furnished at the Committee's meeting in April. Payments passed included 1,325*l.* 6*s.* 8*d.*, being 90 per cent. of chemists' accounts for the month ended February 11, and 71*l.* 12*s.* 6*d.* to the Pharmaceutical Standing Committee for checking prescriptions.

West Bromwich.—The Insurance Committee on March 18 authorised the Finance and General Purposes Committee to pay chemists on terms already agreed upon, in order that their accounts might be paid as soon as possible after being rendered. The Committee also decided to enter into a new agreement with Dr. T. Sansome for him to supply drugs to insured persons in the Hill Top Ward who were accustomed to attend at his Hill Top surgery.

West Lothian.—At a meeting of the County Insurance Committee in Edinburgh on March 21, the Finance Committee reported that they had unanimously agreed that all those doctors who are allowed to supply drugs to their patients shall be entitled to charge according to the Drug Tariff, and not on the capitation basis, this arrangement to come into force at the end of the present quarter, with one

exception, in which a certain doctor is to be allowed to continue on the capitation basis for two quarters. The report was opposed by Dr. Campbell (Whitburn), but was agreed to by a majority, Dr. Campbell intimating that he will not dispense drugs on these terms, although he is quite willing to prescribe.

West Riding.—The Secretary of the Pharmaceutical Committee (Mr. R. Broadhead) has been informed by the Clerk to the Insurance Committee that it is only possible to pay immediately 80 per cent. of chemists' accounts for the month ended February 14. His statement is as follows:

About one-quarter of the (approximately) 4,000*l.* per month of the provisional credits is payable to the doctors in respect of persons for whom they dispense, leaving 3,000*l.* From this there will be small deductions for payment of emergency prescriptions, for temporary residents' medicines, and a somewhat large amount for non-tariff prescriptions. The total amount of chemists' accounts for tariff drugs for the month ending February 14 is 3,500*l.* The fund is sufficient to pay 80 per cent. and leave a balance of 200*l.* to pay for non-tariff prescriptions and other items mentioned above.

At the last meeting of the Pharmaceutical Committee a Sub-Committee was appointed to meet the doctors on the question of maintenance expenses, etc. Several matters of interest, including the mile-limit, have been referred to the Joint Services Sub-Committee. Some misapprehension has arisen regarding dispensing of emulsio ol. morrhuæ c. hypophosph., and chemists are being reminded that when this is prescribed the B.P.C. preparation should invariably be supplied. On Saturday, March 21, Mr. Runciman received in conference representatives from bodies interested in the working of the Insurance Act in Dewsbury, Batley, and Mirfield. In the course of the proceedings, brief reference was made to the supply of medicines to insured persons. Mr. Hollis stated that at a recent meeting of the Leeds Insurance Committee (see p. 70) three doctors complained that they could not do justice to their patients, because they were not able to prescribe expensive drugs. He maintained that patients should have the best medicines obtainable. Whatever the cost of drugs might be, they were cheap if they made a sick person well, and medical men ought to have *carte blanche* in prescribing. Mr. Runciman, in replying, said the medicine question was one on which he had not formed a mature opinion. He was not sure that expensive drugs were always the best. At any rate, it would not do to take away all restrictions and allow, say, the free use of radium. To make it impossible to make use of a well-known remedy because it was expensive would be absurd, but the line must be drawn somewhere, and he did not lay much stress on the value of drugs.

Yarmouth.—The provisional credits to the Drug and Suspense Funds for the past medical year amount to 1,543*l.* 18*s.*, and chemists' claims totalled 1,188*l.* 11*s.* 11*d.*, leaving 355*l.* for distribution to panel doctors from the "floating sixpence."

Notes.

B.M.A. Motions.—The "British Medical Journal" reports that at the meeting of 126 representatives of Local Medical Committees in London on March 13, the following motions relating to the Drug Tariff were referred to the Provisional Committee:

That the Drug Tariff should be submitted to the critical consideration of a medical committee.

That the Provisional Committee be instructed to press the Commissioners to give at least three months' notice of any future alterations in the Drug Tariff.

The following motion as to checking prescriptions was adopted:

That the attempts of certain Insurance Committees to impose the cost of performing such administrative duties as checking of prescriptions on Panel and Pharmaceutical Committees (and through these on Panel and Drug Funds) are a breach of agreement between themselves and practitioners, and should be resisted to the utmost.

A Public Inquiry has been held at the Town Hall, Denbigh, respecting a proposal by the King Edward Welsh National Memorial Association to erect a sanatorium available for consumptive patients in North Wales, on Plas Llangwyfan Farm, near Llandyrnog, and about four and a half miles from the town of Denbigh. The inquiry was presided over by Dr. H. Meredith Richards, one of the Welsh Insurance Commissioners, and took the form of an application by the Memorial Association for a grant from the Insurance Commissioners towards the erection of the sanatorium on the site mentioned. In view of the importance of the matter, and the known opposition of Mr. George B. Behrens, Vron Yw, and other people to the scheme, the hall was crowded each day by an interested audience. Evidence was given by, *inter alia*, Dr. Nathan Raw (Liverpool), Dr. M. S. Paterson, Dr. Thomas Roberts, and other medical men.

FESTIVITIES.

Social Evenings.

Music and mirth were the order of the evening at the social reunion of the London staff of Messrs. Burroughs Wellcome & Co. held at St. Bride Institute, London, E.C., on March 18. Mr. J. Collett Smith was Chairman, and Messrs. W. H. Lewis and B. Brooks were musical directors. A varied selection of instrumental and vocal music, together with mirth-provoking interludes, went to the making up of an excellent concert in the small hall. While the music-lovers were enjoying this programme another section indulged in dancing and games in the large hall. The M.C.s were Messrs. E. Linstead and Lane. It was altogether a most successful function, affording the members of the staff pleasant social intercourse, concluding with the united singing of "Auld Lang Syne."

The office staff of Messrs. Evans Sons Lescher & Webb, Ltd., Liverpool, held their final whist-drive and dance of the season at Lockerby Hall, Liverpool, on Friday evening, March 20. The company numbered about one hundred, and included Mr. G. M. McLoughlin (office manager), Mr. J. Shacklady (secretary of the company), Mr. and Mrs. Tallantyre, Mr. A. H. Hunt, and Messrs. F. W. Dyke and S. Connor, of the travelling staff. Whist was played from 8 to 10.30 P.M. The prizes were distributed by Mrs. Tallantyre, the successful ladies being the Misses Coleman, Roberts, and Edwards, and the gentlemen's prizes went to Messrs. Duncan, Such, and Makinson. During the evening Mr. G. M. McLoughlin (the Chairman of the Entertainment Committee) alluded to the office functions which had been held during the winter, and which had the good effect of bringing the staff together socially. The series of whist-drives and smoking-concerts had been very successful, and great praise was due to the excellent committee they had for the work they had done, particularly Messrs. Davies, Thredder, and Ellison. Mr. McLoughlin ended by announcing that next month there will be a walk in the neighbourhood, concluding with a Bohemian concert. Dancing was kept up until 2 A.M., Reiner's band providing the music, and Mr. J. B. Thredder acting as M.C.

A Foursome with Tea and Dinner.

"Holing in one" has its penalties, as all golfers know, or ought to know. When Mr. S. Body (Westcliff-on-Sea) was playing with Mr. E. A. Holloway at the Thorpe Hall Course one half-holiday last year he holed in one. The fact was duly recorded in the *C. & D.*, and a challenge given to any other pharmaceutical pair of golfers to take them on. Messrs. S. Briggs and C. S. Presant, two well-known golfers, accepted on handicap terms, the losers to pay a guinea to the Pharmaceutical Benevolent Fund. The match had been partially arranged twice, and twice postponed, but it finally came off at the Thorpe Hall Course on March 18. Unfortunately, Mr. Briggs was called away owing to a bereavement, so Mr. T. Coulson, of Graecchurch Street, partnered Mr. Presant. They had a trial round in the morning, and a good gallery in the afternoon. Our correspondent was in the gallery, but he is more familiar with graphic formulæ and Insurance prescriptions than he is with the intricacies and language of golf. Nevertheless, we quote a passage which is almost Hutchinsonian in its realism:

"So the game went round until the twelfth hole was reached, when I heard two men say to two others 'That is a bob you owe me,' and I learnt that Messrs. Coulson and Presant were beaten by 6 and 5 to play. I am sorry I cannot do justice to the situation, but the restraint on both sides from entirely opposite reasons would have been a good object-lesson to any Sunday-school class. Possibly the losers were cheered by the fact that they were benefiting the Pharmaceutical Benevolent Fund to the extent of one guinea, and the winners correspondingly depressed that they were not contributing."

Adjournment was made to the Thorpe Hall Golf Club House, where the ladies (Mrs. Coulson, Mrs. Presant, of London, Mrs. Matthews, Leytonstone, Mrs. Holloway and Mrs. Walker, Southend) had tea awaiting. After friendly banter had been exchanged, it was decided to extend the match to two others, the second one to be played at Ealing directly after Easter, and the third on neutral ground. In the evening the whole company met at dinner in Queen's Hotel, Westcliff. Mr. Matthews (Leytonstone) presided. There were present Mr. and Mrs. Body, Mr., Mrs., and Miss Holloway, Mr. and Mrs. Carr, Mr. Carr, jun., Mr. and Mrs. Coulson, Mr. and Mrs. Presant, Mr. and Mrs. Goode, Mr. Smith, Mr. and Mrs. Matthews (Leytonstone), and Mr. Holland. After a very good dinner, several songs were rendered, and a "golf" whist-drive took place, in which the "Booby" prize was won by Mr. E. A. Holloway: it was a silver baby's-rattle!

WINTER SESSION

of Meetings of Trade Associations.

Others are reported under "Insurance Act Dispensing" when the subjects pertain chiefly to that Section.

District Meeting—A well-attended meeting of pharmacists in the Bath and Bristol area was held under the auspices of the Pharmaceutical Society at Bath on March 18. Representatives were present from Bath, Keynsham, Westbury, Bristol, Chippenham, Corsham, Melksham, Trowbridge, Cheltenham, Weston-super-Mare, and Yeovil. Mr. J. G. H. Hawes (President of the Bath Chemists' Association) presided, and in the unavoidable absence, through illness, of Mr. J. H. Cuff, Mr. A. Hagon addressed the meeting on behalf of the Council, and Mr. Woolcock explained various points in connection with pharmaceutical business in the area, and answered questions on Insurance and other matters. The meeting concluded with the adoption of a resolution expressing satisfaction that a Parliamentary Fund had been established, and pledging its support.

Birmingham.—At a meeting of the Midland Pharmaceutical Association held at the Grand Hotel, Birmingham, on March 18, Mr. F. H. Alcock read a paper on *Glycerin of Starch*, which is printed on p. 50. In the course of the discussion which followed, Mr. H. W. Jones said he has applied starch in two directions, primarily for disinfecting tablets, and secondly for drying essential oils. Starch contains from 12 to 16 per cent. of moisture, and this being removed in the usual way and then essential oils added, with subsequent filtration, yields a moisture-free oil. The President (Mr. Jas. Radford), Mr. W. Shakespeare, Mr. A. W. Gerrard, and Mr. E. W. Mann also spoke. Mr. H. W. Jones followed with a paper in which he gave a short account of "Dr. Grew and the Anatomy of Vegetables, 1672," which was marked by considerable historical research.

Cumberland and Westmorland. The annual meeting of the Cumberland and Westmorland Chemists' Association was held at Whitehaven on March 18, when the Secretary presented a full report of the past year's work, dealing chiefly with Insurance matters (see p. 70). Mr. F. Pilkington Sergeant afterwards addressed the meeting on the working of the Insurance Act, pharmaceutical organisation, and the Parliamentary Fund, an interesting discussion following on the various points raised. The following officers and committee were appointed: *President*, Mr. F. B. Bennett; *Secretary*, Mr. T. W. Townley; *Committee*, Messrs. Ridley, Ritson, Sewell, Cowper, H. Smith, Taylor, J. T. Wright, Clarke, and D. McVitie, with the addition of the Local Association Secretaries (Mr. J. B. Errington, Mr. T. M. Ridley, and Mr. C. E. Holmes). Mr. J. R. Mayson represented the non-panel chemists.

Ealing.—The monthly meeting of the Ealing Pharmacists' Association was held at Bellomo's Restaurant, Chiswick, W., on March 18, the President (Mr. E. F. Strickland) presiding over an attendance of twenty-five members. The business included the nomination of the Association's Secretary (Mr. Geo. W. Udale, Ph.C.) as District Officer under the Pharmaceutical Society's new organisation scheme, and the promise of the Association's support to Mr. Herbert Skinner in his forthcoming candidature for the Council election. Mr. Hugo Wolff addressed the meeting on the subject of *How to Sell*, as a corollary to his previous paper on "How to Buy." The chief points which the lecturer made were to apply to pharmacy the fine art of suggestion; never substitute; abolish the "just-as-good" theory, unless at the customer's own suggestion; follow up the client's own demands with suitable and profitable adjuncts; make patent and proprietary goods the bed-rock of business; use plenty of tact; and, finally, be pleasant over "refunds." A good discussion ensued. Mr. Herbert Skinner followed on with a short account of *Insurance Work*, emphasis being laid upon the question of payment of accounts. As an outcome of this it was resolved that steps should be taken to bring pressure to bear upon the Middlesex Insurance Committee for the payment of accounts in full to the end of the medical and pharmaceutical year, and a demand for 90 per cent. on accounts incurred to date. A vote of thanks was given to Messrs. Wolff and Skinner.

Fifeshire.—A well-attended meeting of the Fifeshire Pharmaceutical Association was held in the Station Hotel, Kirkcaldy, on Wednesday afternoon, March 25. Mr. Storrar (President) and Mr. Yule (Vice-President) took the chair in succession. Mr. Bisset (Chairman of the Pharmaceutical Committee) made an interesting report on the year's Insurance prescriptions, especially pointing out discrepancies in pricing of drugs, etc., outside the Tariff, and urging the necessity of a uniform system of pricing. An animated discussion followed, Messrs. D. Gilmour, Hogg, McLean, McLaren, Leadbetter, Carmichael, McCorquodale, Ramsay, Baxter, Storrar, Stewart, and Yule taking part in it; and it was agreed to issue to all panel chemists a circular giving instructions so as to secure uniformity in pricing. Mr. J. R. Hill gave an account of the Scottish Standing Committee's negotiations with the Scottish Commissioners, and justified the delay in dealing with a revised Tariff and increased dispensing charges. He showed that the best ground for an advance lies in evidence deducible from work done in the past.

Glasgow.—Mr. T. Guthrie presided at the monthly meeting of the Glasgow and West of Scotland Chemists' Association on Thursday, March 19, when Mr. J. P. Gilmour delivered a lecture entitled *Candid yet Circumspect Confessions of a Pharmaceutical Diplomatist*. There was once a Highland minister who preached to his people on the text "Walk circumspectly." In order to explain to such of his congregation as "had not the English" the precise meaning of the word "circumspectly," he said, "My friends, you have seen a wall with broken bottles on the top of it. And, my friends, you have seen a cat walking along that wall. Well, my friends, that cat walked circumspectly." Mr. Gilmour first humorously traced the various steps in his own evolution as a pharmaceutical diplomatist, from the humble sphere of a price-list vendor, through his connection with various literary and pharmaceutical societies, up to the present, when he finds himself a kind of pharmaceutical "Pooh-bah," being connected with the Joint Advisory Committee, the Scottish Advisory Committee, the Joint Standing Committee, the Scottish Standing Committee, the Glasgow Burgh Insurance Committee, and the Glasgow Pharmacy Service Sub-Committee. With the functions and work of each of these he dealt in succession, the explanations being accompanied by happy and humorous relations of incidents which made the lecturer's audience one with him in clear perception of the difficulties which had to be overcome and pitfalls to be avoided before the pharmacist came into his own under the Insurance Act. Without giving away official secrets, Mr. Gilmour mentioned some of the rights and privileges now enjoyed by panel chemists, which would not have been secured had not their representatives on one or other of the bodies mentioned been able to submit their views and to contend for them. He showed the opportunity that is now open to Scottish chemists to appoint a thoroughly representative body of the best men available. The hope for pharmacy in the future lies, he said, in compact and mobile organisation and united action, and the loyal support of the rank and file of the craft to its representatives. "Failing this corporate spirit and policy," he said, "all is lost. Possessing, cherishing, and cultivating it, the desired end must crown the work." After acknowledging a cordial vote of thanks, Mr. Gilmour left to catch the night train for London, where he attended on Friday a meeting of the Joint Advisory Committee.

Grimsby.—A meeting of the Grimsby Pharmacists' Association was held at the Oberon Hotel on March 16, the President (Mr. J. A. Hawdon) in the chair. There were also present six members and Mr. C. H. Ashton (Hon. Secretary). The question of the misapprehension regarding the Pharmaceutical Society's organisation scheme came up, and Mr. Colley explained that chemists who are on two panels can belong to both the town and district Associations. It was arranged that in future the correspondence will be dealt with by a committee prior to the meeting and the items epitomised in the agenda, so as to give members an opportunity of knowing what subjects are to be brought before the meeting.

London.—Messrs. Menley & James, Ltd., have presented a handsome presidential badge to the Chemists' Assistants' Association, through the President (Mr. F. W. Crossley-Holland, F.C.S.). The badge is of silver and white, green, and red enamels. The front exhibits the C.A.A. monogram and the word "President," while the back is suitably inscribed.

London (N.).—A meeting of the North London Pharmacists' Association was held on March 19, when a lantern-lecture was given by Mr. Alexander Grassick on *The Anatomy of the Eye*. A series of slides was shown demonstrating the structure of the membranes of the eye and optic nerve. Several slides were shown comparing the cornea of insects and depicting the adaptation nature makes for different purposes. Other slides showed the effect of disease in modifying the various parts, and how by understanding the eye the pharmacist is often able to give advice that may result in the saving of sight. A few remarks by the Chairman followed, and a vote of thanks was accorded for one of the most interesting and educative lectures given before the Association.

London (S.E.).—A meeting of the South-East London Pharmacists' Association was held at Till's Restaurant,

Lewisham, on March 19, the President (Mr. J. Y. Fairweather) in the chair. There were about fifty members present. The Pharmaceutical Parliamentary Fund was approved of, and during the meeting 5*l.* 1*s.* was collected. Mr. J. Milner (Greenwich) then read a paper regarding hours of business, unprofitable proprietaries, and the misleading manner in which certain nostrums are being advertised to the public. Mr. Milner contrasted pharmacists' hours with those in other professions and trades. In these days, when labour generally is calling for shorter hours, chemists still serve a selfish public between 8 A.M. and 10 P.M., or later. Even the half-day holiday brings its two to four hours of duty. The reasons for this state of affairs were then considered. The practice is continued because no one has seriously attempted to alter it. Another reason is the jealousy by the pharmacist of his neighbour, a condition which is disappearing since the formation of local Associations. A third reason is that a man cannot tell when he will be ill, and chemists must be at hand when wanted. He suggested that to commence with business hours could be curtailed by half an hour daily, which would give 130 hours of leisure a year without any financial loss. Mr. Milner then touched on the other subjects, which referred to proprietaries. He condemned the method adopted by some firms of using misleading and ambiguous advertisements relating to toilet and other nostrums. A resolution was drawn up to be forwarded to the Proprietary Articles Trade Association, asking that no preparations be accepted for protection unless the price is advertised to the public along with the article. The combined resolutions arising from Mr. Milner's subjects are to be circulated to other London District Associations for discussion and subsequent action is approved. A vote of thanks to Mr. Milner terminated the meeting.

London (S.W.).—A meeting of the South-West London Pharmacists' Association was held at Stanley's Restaurant, S.W., on March 18, Mr. J. Keall (President) in the chair. An appeal was made to the members for support of the Pharmaceutical Parliamentary Fund. Mr. Frank Curry (of Messrs. Burroughs Wellcome & Co.) gave his lecture on *Tuberculins from the Pharmacist's Point of View*, illustrating the discourse by exhibits of bacteria. A vote of thanks was accorded to Mr. Curry. A discussion followed on *Insurance Matters*, and the point raised as to whether Insurance medicines should have anything on the label to denote the fact. It was unanimously agreed that ordinary labels should always be used. A protest was made against the new kind of semi-transparent prescriptions being used, the Secretary (Mr. Atkins) stating that, as practically every prescription duplicate is illegible, all have to be copied, and the situation is as bad as that caused by the "Rep. mist." trouble. It was decided to refer the matter to the County Executive Committee, and request that body to forward a recommendation to the Insurance Committee to return to the old kind of paper.

Middlesbrough.—A meeting of the Middlesbrough Pharmacists' Association was held on March 19 at the Grand Hotel, Mr. E. Denis Owen presiding. A letter was read from Messrs. Middleton & Co., Ltd., protesting against the cutting of prices which is taking place in Middlesbrough. It was decided by the meeting to make an attempt to raise the price of cod-liver oil and malt to not less than the Insurance Tariff charges. Cotton-wool was successfully dealt with in a similar manner a few weeks ago. When the Shops Act came into force application was made for a closing order, which was obtained, but now with Insurance dispensing some chemists feel that the closing order has created difficulties. It was decided, however, to give the order a three months' trial. A protest was made by a member of the Pharmaceutical Committee with reference to a complaint regarding excessive prescribing by a panel practitioner, sent to the Panel Committee and purporting to have come from the Pharmaceutical Committee, although the last-named Committee had never been called together for such a purpose. The Insurance Committee have again changed the mode of payment of chemists' accounts, which are now paid in full in month following. The balance of 10 per cent. from the last quarter of 1913 still remains unpaid, although there is a surplus in the Drug Fund.

Public Pharmacists.—The meeting of the Public Pharmacists' and Dispensers' Association was held at 17 Bloomsbury Square, London, W.C., on March 25. Mr. T. H. W. Idris, J.P., presided over a good attendance, which included a number of ladies. Mr. W. E. Schall, B.Sc., gave a lecture and demonstration on *x*-rays, which has been described in previous issues of the *C. & D.* It was stated that it seems likely that at no distant date *x*-ray tubes, with power of penetration equal to radium γ-rays, will be applicable to the same therapeutic uses at much less cost. In conclusion, Mr. Schall mentioned that cinematography was now possible with *x*-rays. The apparatus was of huge dimensions, with a coil capable of giving enough *x*-rays to portray the chest of an adult in a single flash. The changing apparatus exposed photographic plates up to 12 in. by 10 in. at the rate of about ten per second. A series of films had thus been produced illustrating the action of the human heart and stomach. Only a few series had been made, as the plates alone cost about 50*l.* Great precautions had to be taken to prevent the back pressure from the coil, rising to some 6,000 volts, getting into the mains. The lecturer had some magnificent apparatus at his disposal, and his experiments were strikingly successful. A cordial vote of thanks was passed to Mr. Schall. Lantern-slides of skiagrams were also shown.

Royal Institution.—The Friday evening discourse on March 20 was by Lord Rayleigh, O.M., the subject being *Fluid Motions*. This dealt with certain physical properties of liquids and air which have been studied for the past two centuries. Theoretical hydrodynamics are, however, in some cases in flagrant contradiction of observation. A submerged ship should, theoretically, exert no friction, and passage of a liquid through a tube which has been narrowed in the centre should result in pressure. Following Froude's experiments with ships modelled out of hard paraffin, the lecturer showed by experiments that in a paraffin tube with a narrowed portion in the centre no pressure is exerted, but, on the contrary, suction is caused. The suction in the model shown was sufficient to lift a card and coin. In dealing with the explanation, Lord Rayleigh exhibited the toy in which a celluloid ball is suspended by blowing air beneath it. "Don't despise toys," he said; "a lot can be learned from such things as kites and soap-bubbles." It was shown that here there is also a suction effect, but the rotation of the ball assists its suspension. The vortex-ring theory is also involved, and some experiments were shown with smoke rings and the vortex rings on the surface of sulphur-covered water. The influence of temperature on viscosity was another subject dealt with. It was necessary in this case to check the time in seconds which it took for water to flow through a capillary tube, and the lecturer, in doing this, remarked: "I learned how to count seconds when I practised photography as a young man. You should not forget to begin at nought." The exhibits in the library included a fine display of articles made of bakelite, and J. J. Griffin & Sons, Ltd., had an exhibit of electrical apparatus.

Scarborough.—A meeting of the Scarborough and North Riding Association of Pharmacists was held on March 19 at the residence of Mr. E. R. Cross, 12 Filey Road, Mr. G. H. Meadley in the chair. The objects of the Pharmaceutical Parliamentary Fund were approved, and contributions were made to the Fund by the ten members present. The scheme of local organisation recommended at the Associations' Conference was further discussed, and suggestions were made for its adoption in this difficult area, but further consideration is still required.

Southampton.—The annual meeting of the Southampton Pharmacists' Association was held on March 18, Mr. W. W. Bates (President) in the chair. There was a good attendance. The President addressed the meeting on the work of the Association for the past year, and expressed the wish that, now Insurance matters are assuming a normal aspect, time will be found for lectures and other educational matters. The Secretary's report was adopted, and the Treasurer (Mr. Ferryman) stated that the balance-sheet was satisfactory. The election of officers then took place as follows: *President*, Mr. W. W. Bates (re-elected); *Vice-President*, Mr. W. Martin; *Treasurer*, Mr. Ferryman; *Hon. Secretary*, Mr. F. B. Wride; *Auditors*, Messrs. W. W. Atkinson and W. A. Clarke; *Committee*, Messrs. Clark, Dodridge, Hussey, Gibson, Hodge, Jewell, Oram, Jones, and Fowler. It was decided to drop the words "and District" from the title of the Association, and to hold meetings twice a month in future.

Workington.—The annual meeting of the Workington Chemists' and Druggists' Association was held last week at the Pow Café. Mr. W. Lawrie (President) occupied the chair, and there were also present seven members and Mr. C. E. Holmes (Hon. Secretary). Mr. Holmes submitted the annual report and statement of accounts, and both were adopted. The election of officers then took place as follows: Mr. G. E. Woodhouse, *President*; and Mr. C. E. Holmes, *Vice-President, Hon. Secretary*, and *Treasurer*. The members then took supper together, after which there was a general discussion on pharmaceutical matters.

New Anæsthesia Method.—The note given under this heading in the *C. & D.*, March 21, p. 43, was in error in stating that the animal is chloroformed after receiving the dose of urethane. The urethane is suggested as an anæsthetic in place of chloroform.

CHEMICAL SOCIETY.

A MEETING was held at Burlington House, London, W., on Thursday, March 19. After the minutes of the previous meeting had been read and adopted, the President (Professor W. H. Perkin, F.R.S.) announced that the annual meeting will take place on Thursday, March 26, and that the rooms will be open on April 30 from 8 till 10 P.M. for an informal meeting. The Faraday Lecture will be delivered in the Royal Institution on May 25, at 6 P.M., by Professor Arrhenius, the subject being "Electrolytic Dissociation." The first paper of the evening was by Messrs. H. F. Coward, C. Cooper, and J. Jacobs on

THE IGNITION OF SOME GASEOUS MIXTURE BY ELECTRIC DISCHARGE.

Mr. Coward said that there are conditions under which combustion takes place, sparks being emitted, but the heat of these sparks is insufficient to inflame the gaseous envelope surrounding the part undergoing combustion. Thus the strength of the spark is an important factor in the production of ignition. In the experiments detailed in the paper no account was taken of the pressure necessary to keep the flame burning, but merely the conditions during what has been termed the "pre-flame" period. The gases chiefly dealt with were oxygen and hydrogen in the proportion necessary to form water. Taking a given apparatus, the minimum pressure of the gas necessary to produce inflammation from a given spark was determined; then the pressures necessary when more hydrogen or oxygen was added. It was found that the addition of hydrogen rendered a higher pressure necessary, while oxygen required a lower pressure than the electrolytic gas. The first hypothesis adopted was that the effects produced were due to the thermal conductivities of the relative gases. This fitted in with the result obtained with oxygen and hydrogen, but anomalies were found with other gases. Argon lowers the ignition-pressure, while helium raises it. There is, however, a more mechanical effect produced by the spark, as is shown by passing a spark in a vessel provided with a small thread of water in a tube. The thread is suddenly jerked along the tube, but returns to its original position. It is believed by the authors that this mechanical effect is in some way proportional to the thermal effect, but it has not yet been found possible to prove the connection. They have, however, been driven to the conclusion that the passage of a spark in some way activates the oxygen in its path, and thereby renders ignition more ready. The authors think that the thermal conductivities of the gases play some part in determining the ignition-pressure, but other factors have yet to be considered.

OTHER COMMUNICATIONS.

Messrs. E. E. Turner and G. M. Bennett read a paper on the "Action of Chromic Chloride on the Gruinard Reagent." The facts put forward in the paper are the outcome of an attempt to prepare organo-metallic compounds of chromium. This was found to be impossible, but it was ascertained that the presence of chromic chloride led to the ready formation of certain types of hydrocarbons, such as diphenyl. In some cases as much as 95 per cent. of the theoretical yield was obtained.

Mr. W. E. S. Turner read a paper by himself and several other gentlemen on the "Influence of the Solvent on the Molecular Weight of the Substance in Solution." The solvent has a twofold action. It may be chemical or physical. Of the physical effect it has been found that some bodies give anomalous results on attempting to determine their molecular weights in solution. This is due to either dissociation or association of the molecule. The conclusion to which the experiments have led are that salts must be regarded as capable of association of their molecules to a considerable extent, and that the main factor in determining the molecular size is the dielectric constant of the solvent; further, that temperature has a considerable effect, and there may also be a specific influence due to certain solvents.

A paper was read by Mr. B. B. Ley on "Hydrazones of Methyl and Phenyl Glyoxals."

The Annual General Meeting.

of the Fellows of the Society was held on Thursday afternoon at half-past four, the President in the chair, when the report of the Council and the accounts were received and adopted. The report showed that the membership had increased from 3,158 on December 31, 1912, to 3,201 a year later. It is sixty years since Professor G. D. Liveing was elected a Fellow of the Society, and Mr. John Spiller, Professor John Wrightson, and Mr. Henry Bassett have been Fellows for fifty years. All were congratulated. The departments of the Society's work were touched on, all being in progressive condition, and the report concluded with a statement regarding the finances. During 1913 the income was 9,235*l.* (an increase of 1,115*l.* over 1912), and the corresponding expenditure was 9,473*l.* (an increase of 1,528*l.*). The income and expenditure are records.

After the report had been approved and thanks accorded to the officers, the President delivered an address on "Recent Researches in Tautomerism."

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MESSRS. SHAND AND ORR have opened a pharmacy at 301 Regent Road, Salford. It was fitted throughout by Messrs. Ayrton-Graham, Ltd.

MR. F. J. BARRATT, chemist and druggist, has closed his business at 112 High Street, Winchester, on March 23, owing to the termination of lease.

THE CHEMISCHE WERKE ROERMOND H. RAAB & CO. have removed from 39 Mincing Lane to larger offices at 28 Ely Place, Charterhouse Street, Holborn, London, E.C.

THE BUSINESS of the late Mr. W. H. Bucher, Ph.C., 31 Boscawen Street, Truro, is being carried on by the widow under the management of Mr. A. C. Cannon, chemist and druggist.

MR. G. F. KNEEN, chemist and druggist, late of 141 Anerley Road, London, S.E., has been compelled to retire from business owing to ill-health, and is now living at 12 Mindon Road, Anerley.

MESSRS. SPIES BROS. & CO.'S present premises at 102 Fenchurch Street, London, E.C., in consequence of the proposed widening of Leadenhall Street, will be partly demolished, and they have accordingly removed to 2 Bury Court, St. Mary Axe, E.C.

MR. R. H. TOOTILL, of Altrincham, has removed his Hale pharmacy to new premises in the Ashley Road, which have been fitted with a handsome double shop-front in mahogany, together with a novel design of interior fittings, by Messrs. Ayrton-Graham, Ltd., Liverpool.

BOOTS CASH CHEMISTS LTD. have decided to build new offices and stores over the sidings of the London Chatham and Dover Railway in Grosvenor Road, London, S.W., the new central offices being on the frontage to this thoroughfare. The floor areas will cover several acres, and the cost involved will probably be over 70,000*l.*

RADIUM ORES IN CANADA.—Ontario is offering a prize of 5,000*l.* for the discovery of radium in the province in sufficient quantity to be utilised for commercial purposes. A bonus is also offered by the Government of British Columbia. The Federal Government is taking steps to reserve to the Crown the rights over radium ores found in Canada.

INSURANCE ACT APPLIANCES.—Mr Walter Davies (Chairman of the Manchester Insurance Committee and a member of the Advisory and Sickness Claims Committees), in an address to the members of the Manchester Faculty of Insurance on March 17, complained that the schedule of appliances is a "closed list," and does not include such important appliances as trusses and elastic stockings. As a result of this unjustifiable limitation the insured public was not receiving the adequate medical treatment contemplated by the Act, and the result was excessive claims upon the funds of their societies, which would in many cases preclude the members from receiving those additional benefits which might reasonably have been anticipated.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., March 26, 6.30 p.m.

BUSINESS in most directions continues of a restricted character, with here and there some improvement. The political situation is the uppermost topic in the speculative markets, where the feeling in such articles as shellac, sugar, and coffee is depressed. The principal changes include a decline of 10*s.* in quicksilver, 1*d.* in mercurials, with the exception of corrosive sublimate, which is 2*d.* cheaper. Soda tart. and pulv. seidlitz have been advanced, and higher prices have again been paid for citric acid. American peppermint oil in tins has sharply advanced in sympathy with the United States. Cardamoms and colocynth pulp have shown more activity for export; insect-flowers show a seasonable inquiry. Opium is 6*d.* dearer in primary markets with the outlook uncertain. Santonin will in all probability be advanced 4*s.* 6*d.* at the end of the month. Menthol is dull and weak, with fair arrivals. Strychnine has a firmer undertone. Lemon oil is irregular, and bergamot firmer. Turpentine is dearer. The principal changes of the week are as follows:

Higher	Firmer	Easier	Lower
Citric acid Linseed oil Opium Peppermint oil Amer. and H.G.H. Pulv. seidlitz Soda tart. Turpentine	Anise oil (star) (c.i.f.) Bergamot oil Coconut oil Cottonseed oil Rape oil Shellac	Almonds Ammonia sulphate Lead nitrate Shellac	Menthol Mercurials Quicksilver

Cablegrams.

BERGEN, MARCH 25.—The cod-fishing is of a regular character, and the market for finest non-congealing Norwegian oil is dull at about 69*s.* 6*d.* per barrel c.i.f. terms.

NEW YORK, March 25.—Business in drugs is fair. Opium has advanced to $6.40 per lb. Peppermint oil in tins is 10c. higher at $4.00 per lb. Copaiba balsam has declined to 42c. Hydrastis is also cheaper at $4.85, a reduction of 5c. Menthol has been reduced to $3.20, and Cartagena ipecacuanha is cheaper at $1.55. Buchu, Mexican sarsaparilla, and jalap are unaltered.

London Markets.

ALMONDS are easier, Persian offering at 7*l.* per cwt. on the spot, with fair quantities of raw material arriving. Prices of sweet-almond oil are easier.

ANISE OIL (STAR).—The spot value of "Red Ship" brand is 5*s.* 11*d.*, and to arrive 5*s.* 4*d.* c.i.f. is asked.

BENZOIN.—Sales privately of good almondy Sumatra seconds have been made at 7*l.* 15*s.* per cwt.

BERGAMOT OIL is firmer at primary sources, the quotation being from 18*s.* 6*d.* for 36 per cent. to 20*s.* to 20*s.* 6*d.* c.i.f. for 38 to 40 per cent. esters.

A Sicilian report, dated March 21, states that, stocks being in strong hands, holders, notwithstanding the general lack of business, have been able to obtain full prices for what little business has been done. [Market is firmer since the above report.—ED.]

CALUMBA.—Small sales of washed pickings *ex* auction have been made at 17*s.* 6*d.* per cwt.; the value of common natural sorts is about 14*s.* 6*d.*

CAMPHOR (REFINED).—Quiet, with sellers of Japanese slabs at 1*s.* 4¼*d.* per lb. c.i.f. for July-August shipment.

CARDAMOMS.—There has been a good inquiry from the United States, and, with a comparative scarcity, a premium has been paid on sale prices.

CASTOR OIL.—English make of first pressing is quoted at 25*l.* 15*s.* per ton in barrels for prompt delivery, and at 26*l.* for April-December delivery; pharmaceutical quality is 50*s.* per ton over the price of first pressing, and oil in tins and cases is 50*s.* over the price in barrels, delivered free on wharf London. Belgian firsts for prompt and forward delivery is quoted 25*l.* per ton f.o.b. Antwerp, prompt and forward. Good seconds Calcutta is quoted in Liverpool at 3¾*d.* per lb *ex*-store, and 3 9/16*d.* forward quay terms.

CHAMOMILES are quiet, with fair average quality offering at from 50*s.* to 55*s.* per cwt.

CHIRETTA is offered at 3½*d.* per lb. for fair merchantable quality.

CINCHONA.—Further particulars in regard to the Amsterdam auction to be held on April 3 show that the 1,206 bales and 284 cases Java pharmaceutical bark weigh 83,147 kilos., with a quinine-content of 2,486 kilos.

CITRIC ACID.—With practically no stocks, the position remains acute and is likely to do so for several months; 2*s.* 2½*d.* has been paid for quite retail lots.

CLOVES.—Quiet, with sellers of fair Zanzibar of new import at 6*d.* to 6⅛*d.* and old crop at 6¼*d.* to 6⅜*d.*, as to quality.

COCA-LEAVES.—Further particulars in regard to the Amsterdam auction to be held on April 3 show that the 2,975 packages weigh 159,816 kilos., with a total alkaloid-content of 2,630 kilos., the average percentage being 1.75. Two cases crude cocaine, weighing 47 kilos., the total alkaloid-content being 43 kilos., will also be offered.

COCOA-BUTTER.—Sales have been made at 1*s.* 4½*d.* per lb. on spot.

COD-LIVER OIL.—Agents' quotations remain practically unchanged, at from 65*s.* to 70*s.* c.i.f. per barrel for finest non-congealing oil, and a bid at the lower figure would be submitted for a leading mark; on the other hand, another equally good brand is held for 70*s.* It is asserted that the oils offered at the lower quotations consist of a blend of 1913 and 1914 production; it will be recalled that the 1913 oil was plentiful and of excellent quality, and is thus readily adaptable for blending purposes.

Our Bergen correspondent writes on March 23 that, "as the fine weather continues, the past week's cod-fishing gave rather good results, although a little inferior to that of the foregoing week. To-day's report give the following figures for:

	1912	1913	1914
Lofoten.			
Catch of cod (millions)	12.1	4.5	7.9
Yield of c.l.o. (hect.)	9,275	2,775	6,475
Sondmore.			
Catch of cod (millions)	10.2	2.2	10.2
Yield of c.l.o. (hect.)	6,500	1,275	7,300
Total of all Districts.			
Catch of cod (millions)	44.4	17.3	35.1
Yield of c.l.o. (hect.)	34,850	12,350	27,875
Yield of liver for "raw" oils (hect.) ...	5,300	3,400	5,200

As it will be seen, the Lofoten fishing is now left far behind by that of Sondmore, which is extraordinarily rich this year. In Eastern Lofoten the hope for a good season is now abandoned, and the fishing fleet is sailing westwards, which usually means that the season will soon be ended.

In the Bergen market the quotation of 69*s.* per barrel c.i.f. for prime 1914 non-congealing Lofoten oil has been maintained, but buyers abroad are holding aloof, awaiting still lower prices before the end of the fishing.

COLOCYNTH.—Pulp has been in demand for the American market, and there is now very little desirable quality left; 7*d.* is asked for brown dusty.

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Copaiba.—The *Hilary*, from Para to Liverpool, has brought 31 cases and 15 barrels. This description is offered at 1*s*. 10*d*. on spot; and for Maracaibo from 2*s*. to 2*s*. 2*d*. is quoted.

Copper Sulphate is firm at from 21*l*. 17*s*. 6*d*. to 22*l*. for the usual Liverpool brands for March-April delivery.

Galls are flat, with Persian blue offering at 46*s*. to 47*s*. and green at 43*s*. on spot.

Geranium Oil.—Bourbon is offered at from 12*s*. 9*d*. to 13*s*. per lb. spot, and the quotation for shipment is 12*s*. 5*d*. c.i.f., with "bear" sellers at less.

Gum Acacia.—Sudan sorts are steady, with moderate sales at the unaltered rate of 33*s*. per cwt. for fair half-hard sorts; to arrive, the values are from 29*s*. to 29*s*. 3*d*. per cwt. c.i.f. Khartoum to London. East Indian gums are quiet, No. 1 Ghatti offering at 27*s*. 6*d*. and No. 2 at 17*s*. per cwt. c.i.f. Senegal is unchanged on spot, while the arrival prices are a trifle easier at 30*s*. per cwt. f.o.b. Bordeaux for Bas de Fleuve quality.

Insect-flowers.—New crop is beginning to arrive and more demand is shown. Closed offer at from 120*s*. to 130*s*. as to quality.

Lemon Oil.—Reports as to market tendency are somewhat irregular with, if anything, a weaker feeling, prices varying from between 8*s*. 3*d*. and 8*s*. 9*d*. per lb. c.i.f. for good brands to arrive; the spot values are from about 8*s*. 6*d*. to 9*s*. With regard to the future of the market it is stated that "most manufacturers have agreed to delay the sale of the enormous stocks owned by them, and it is now recognised by everyone that this year's pressing will yield at least twice as much oil as last year."

A Sicilian report, dated March 21, states that the position remains entirely unchanged, as the demand from abroad is still entirely lacking, while local requirements to provide for previous blank sales for March delivery still keep sufficient life in our market to enable sellers to keep up their prices. Trade has, on the whole, been very sluggish all through the week, and, notwithstanding their endeavours to push prices up still further, sellers have not succeeded on the whole in improving last week's figures. It is generally expected that only when the March requirements are provided for will the position clear up.

Menthol continues very quiet, with spot sellers at from 11*s*. to 11*s*. 6*d*. as to brand. Business for March-May shipment has been done at 10*s*. c.i.f. for Kobayashi, and further buyers. The arrivals in London comprise 30 cases menthol and 45 cases mint oil *viâ* Havre, 20 cases oil *viâ* Hamburg.

Mercurials.—Owing to the reduction in quicksilver, the price of mercurials has been reduced by 1*d*. per lb., with the exception of corrosive sublimate, which is 2*d*. cheaper. The following are the English makers' prices:

	List price and below 1 cwt. per lb.		Not less than 1 cwt. per lb.	
	s.	*d.*	*s.*	*d.*
Hyd. amon. P.B.	2	11	2	10
Hyd. oxid. rub. P.B. ...	2	11	2	10
Hyd. oxid. rub. præp. ...	2	11	2	10
Hyd. oxid. flav.	3	0	2	11
Hyd. perchlor. P.B. ...	2	2	2	1
Hyd. persulph.	2	3	2	2
Hyd. subchlor. (calomel) P.B.	2	8	2	7
Hyd. sulph. nig.	2	3	2	2

The above prices are net cash, and without engagement.

Mint Oil.—Japanese is quoted at 4*s*. per lb. c.i.f. for Kobayashi and buyers at 3*s*. 10*d*. The spot price is nominal at 4*s*. 3*d*.

Musk.—Sellers of fine, thin-skin blue Tonquin pod pile I. quote 70*s*., and old style well trimmed at 60*s*. Pile III. is offered at 40*s*. per oz.

Oils (Fixed).—*Linseed* has been firm and active, closing at 26*s*. in pipes and 26*s*. 3*d*. in barrels. Crude *Cottonseed* is firmer at 30*s*. 3*d*., ordinary pale refined 30*s*. 6*d*., and sweet refined 33*s*. 6*d*. to 34*s*. 6*d*. *Coconut* is quiet, Ceylon offering on spot at 44*s*. and Cochin at 51*s*. 6*d*. *Rape* is firmer, ordinary crude offering at 32*s*., and English refined in casks at 34*s*. 3*d*. *Palm* oil quiet, the sales in Liverpool including Lagos near at hand at 32*l*. 15*s*. China *Wood* oil is quoted on spot at 29*l*. 10*s*., and April-May shipment at 28*s*. 6*d*. c.i.f. *Petroleum* is quiet, either Russian or American on spot offering at 8*d*., and water-white at 9*d*. per gallon.

Olibanum.—Quiet, with small sales of good fair drop at 44*s*. per cwt.

Opium.—An advance of about 6*d*. per lb. is quoted in cables received from primary sources, the usual 11-per-cent. quality offering at 14*s*. 3*d*. The future outlook is regarded as uncertain and rain is still wanted. The spot prices are unchanged at from 15*s*. to 15*s*. 6*d*. Supplies of Persian have come to hand fairly free recently, and, although holders are perhaps not so firm, prices are unaltered at from 18*s*. to 21*s*., according to test. The arrivals of opium in London comprise 29 cases via Marseilles and 55 cases from Smyrna.

A Smyrna correspondent writes on March 13 that the sales this week amount to 18 cases of low-grade opium, at from 12*s*. to 14*s*. 6*d*. For Karahisars and Yerli druggists' sellers firmly maintain last week's figures of from 14*s*. to 16*s*. as to quality. Rich Yerlis are quoted at from 16*s*. 6*d*. to 18*s*. The arrivals are 4,435 cases, against 2,297 cases at same date last year.

Orange Oil.—A primary market advice reports the market as unchanged, with generally little doing; agents in London quote from 10*s*. to 10*s*. 3*d*. per lb. c.i.f. for sweet.

Peppermint Oil.—An advance of 6*d*. to 9*d*. per lb. has taken place in American tin oil, the quotations for which are from 17*s*. to 17*s*. 6*d*. net, with a small business in progress. H.G.H. is also dearer at 20*s*. 3*d*. to arrive, and practically the same price on the spot.

Quicksilver.—The principal importer reduced his price on Tuesday by 10*s*. per bottle to 7*l*., which is quoted at the close. Second-hands since the reduction have been offering at 6*l*. 17*s*. 6*d*.

Quillaia.—The *Esmeraldas* has brought 366 bales from Valparaiso to London. The spot price is firm at 36*s*. to 38*s*., and crushed 43*s*. to 44*s*. per cwt.

Quinine.—Steady, German makers quoting 1*s*. 1*d*., second-hands 1*s*. 0½*d*. to 1*s*. 0⅝*d*., as to age.

The exports of "quinine, quinine salts and combinations" from Germany during January were as follows:

	1912	1913	1914
Kilos. ...	14,400	14,600	20,200

Rhubarb.—The sales include Canton small trimming root, slightly stalky and of fair pinky fracture, at 3*s*. 6*d*., and ordinary pickings at 2*s*. 2*d*. Flat High-dried has also been sold at 1*s*. It is stated that a "White Wolf" insurrection is taking place in the Shensi Province, and that this may affect the price of that description of rhubarb, which is already very high.

Santonin.—It has practically been decided by the Santonin Syndicate to advance prices a further 4*s*. 6*d*. per lb. from April 1. This would make the first-hand price 111*s*. 3*d*. per lb. net in 1-cwt. lots; the previous advance was one of 4*s*. 6*d*. in February.

Sarsaparilla.—Grey Jamaica is very scarce, and offered from second-hands only, who ask 2*s*. for single bales; good native red is offered at 1*s*. 1*d*.

Senega.—The *Montrose*, from St. John's, N.B., has brought 21 bales. These are understood to have been sold to arrive to various buyers. The c.i.f. price is unaltered at 2*s*. 9*d*.

Shellac has an easier tendency, with small sales of TN Orange on a basis of 71*s*. for fair, and AC Garnet is also quoted at 71*s*. For arrival TN Orange for April-May shipment is quoted 71*s*. nominally, and AC Garnet 67*s*. c.i.f. Good to fine Orange marks are dull of sale, at from 80*s*. to 95*s*. per cwt.

Soda Tartarata has been advanced by 3*s*. per cwt., making the price of powder or crystal 87*s*. per cwt. in 5-cwt. casks and 90*s*. in 28-lb. parcels. *Pulv. seidlitz* has been advanced by 2*s*. 3*d*. per cwt. to 72*s*. 3*d*. in 5-cwt. casks and 74*s*. 6*d*. in 28-lb. parcels, all without engagement.

Soy is steady, but quiet at 1*s*. 3½*d*. per gal.

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Strychnine.—A good business is reported on the basis of 1*s.* 4½*d.* per oz. for 1,000-oz. lots of pure crystals, and the undertone is firmer.

Turmeric.—The sales include several hundred bags of Bengal on the spot at from 10*s.* 6*d.* to 11*s.* 6*d.* Madras finger is steady at from 14*s.* to 15*s.* for fair to good finger.

Turpentine is firmer, closing at 32*s.* 6*d.* for American on spot, and at 32*s.* 7½*d.* for April.

Vanilla.—At auction about 200 tins offered, of which about 180 tins sold at slightly easier prices for firsts; while common and split were steady.

Vermilion is unaltered at 2*s.* 2*d.* per lb.

Wax, Bees'.—In Liverpool, Gambia is quoted at 8*l.* 10*s.* per cwt. In London prices are firm, with Jamaica quoted at from 9*l.* to 9*l.* 5*s.*, East African 8*l.* to 8*l.* 5*s.*, bleached Calcutta 8*l.* 10*s.* to 8*l.* 15*s.*, and yellow 7*l.* to 7*l.* 5*s.* per cwt.

Wax, Carnauba.—Sales of chalky have been made on spot at 141*s.*, and sellers of waxy quote 135*s.* per cwt.

Wax, Japanese.—The spot price of good slabs is from 52*s.* 6*d.* to 55*s.* per cwt. as to quality, the c.i.f. values being from 50*s.* to 51*s.*

Manchester Chemical Market.

March 24.

There was a fair attendance on the chemical-market, but the tone was, with very few exceptions, dull throughout. In heavy chemicals there were rumours of very low prices having to be accepted to induce business both in caustic soda and ammonia alkali. Bleaching-powder for the present seems to be the mainstay of the business. Soda-crystals are quiet. Sulphate of copper, in consequence of a rather sharp advance in the raw material, has firmed up. No very precise information was obtainable, but, speaking generally, quotations were 23*l.* 2*s.* 6*d.* to 23*l.* 10*s.* per ton, delivered Manchester. There are no changes to report in other directions, except that nitrate of lead is on the down grade. Coal-tar products quiet. Sulphate of ammonia is on the easy side.

Heavy Chemicals.

Business in the heavy-chemical market mainly confines itself to prompt or early delivery, and in this department a fairly steady trade is being done. The demand against existing contracts for main products is good both for home and export. Values, too, do not show material fluctuation, and look like being steadily maintained.

Sulphate of Ammonia is quiet at all centres, and quotations are again down. As regards forward there is little or nothing doing, although lower prices than those current would be accepted. Present nearest figures: London, 25-per-cent., 11*l.* 12*s.* 6*d.*; Leith, 12*l.* 8*s.* 9*d.*; Liverpool, 12*l.* 7*s.* 6*d.*; and Hull, 12*l.* 6*s.* 3*d.*

Barium-products.—Demand in this branch keeps up well both on contract and miscellaneous account. Prices remain unaltered, and, in view of the fact that they are on a comparatively low basis, they are firm. Blanc-fixe, pure precipitated barium sulphate, in paste form, 6*l.* 10*s.* to 6*l.* 15*s.* per ton, in 8 to 9 cwt. casks. Mineral sulphate of barytes varies, according to quality, quantity, and package, from 32*s.* 6*d.* to 100*s.* per ton. Chloride of barium, large or fine crystals, 6*l.* 5*s.* to 7*l.* per ton, in 9 to 10 cwt. casks. Precipitated barium carbonate, 98 to 99 per cent., 5*l.* 17*s.* 6*d.* to 6*l.* 10*s.* per ton, in 2-cwt. bags. Crude calcined barium sulphide, 70 to 75 per cent. BaS, 5*l.* 15*s.* to 6*l.* 5*s.* per ton, in 5 to 6 cwt. casks. Hydrate of barium crystals, 12*l.* 5*s.* to 13*l.* 5*s.* per ton, in 6 to 7 cwt. casks. Concentrated solid, 56 to 60 per cent. BaO, 13*l.* 10*s.* to 13*l.* 15*s.* per ton, in 6 to 7 cwt. drums. Concentrated crushed, 15*l.* to 15*l.* 5*s.* per ton, in 6 to 7 cwt. casks.

Continental Drug and Chemical Markets.

Camphor (Refined) is quiet, with limited demand. Bells from second-hand are offered at m.345, and Japanese refined in slabs at m.320 per 100 kilos., ex warehouse. For shipment, Japan refined, June-July shipment, is quoted at m.310.

Cassia Fistula.—A better demand has prevailed, including sales of old crop at m.22 and new crop at m.24 per 100 kilos.

Cevadilla.—There is little inclination to do business at the high prices asked from primary sources; on the spot (Hamburg) m.120 per 100 kilos. and more is asked.

Condurango.—Supplies have assumed such dimensions lately that consumers have not been able to absorb them. Holders are still insisting upon high prices, but they are unlikely to maintain them; buyers are therefore covering current requirements only.

Hydrastis.—The demand has increased, and the prices asked of m.45 up to m.45.50 per kilo. have been paid for shipment, there being no spot supplies in Hamburg.

Ipecacuanha.—The Hamburg market for Rio is practically cleared, and as for some time to come no new supplies have been received, a further increase may be expected. The demand for Cartagena continues, and almost everything has been taken off the market. The present prices are from m.14.75 to m.15 per kilo., according to description.

Elemi.—In consequence of plentiful receipts, which have proved to be far in excess of demand, the price has fallen in spite of the fair consumption.

Mannite.—The low price which was reached in the middle of February of about fr.12.50 per kilo. is still in force, but there is no room for a further reduction, and with stocks decreasing the market is tending firmer.

Sandarac.—Business has been very quiet lately, this being attributed to the high price. It is becoming increasingly evident that no lower prices may be expected for some time, as the crop results are small and mostly consist of inferior quality.

Tonka Beans.—A further increased demand is evident. Prime Angostura are quoted m.13 per kilo.; Para are also firm at m.6.50 per kilo.

Menthol and Mint Oil.

A report has been circulated on the London and Continental markets to the effect that the Japanese Government have brought forward a Bill to create a monopoly in menthol and mint oil, and that the Japanese Parliament have handed this to a committee for consideration and report. It appears, however, that as a result of cable inquiries since made in Japan from this side that the facts have evidently been distorted by interested parties for market purposes. No Bill was introduced by the Government, but it appears that a private member of the Diet proposed legislation with a view to making a monopoly of menthol and mint oil. This was, however, rejected, and we understand that a Government monopoly has no chance whatever. The Government experience of monopolies in the past has not altogether been fortunate, taking the camphor industry as an example. It may be recalled that in January last, when the menthol market was excited, a report was circulated that a syndicate had been formed among the leading menthol and mint-oil buyers in Japan, but this was afterwards found not to be consistent with facts.

French Neroli Oil.

On several occasions we have referred to the proposals brought forward to increase the French import duties on certain crude perfumery articles such as neroli and petitgrain oils. This matter is referred to in detail in the March number of the "Perfumery Record," which states that as a result "of the high prices for orange-flowers the Syndicate increased their cultivation, and it is estimated that the flower output shows an increase of 20 per cent. compared with the period prior to the formation of the Syndicate. Lower prices followed. The Syndicate is dissatisfied, and its continuance is problematical. Efforts to bolster it up have been made in the direction of asking the State to impose heavy duties on all foreign oils of neroli, and in requesting the Syndicate of the Perfumers of Grasse to fix price so as to safeguard the interests of both grower and distiller, the Perfumers' Syndicate indicate that they are indifferent to a duty on foreign nerolis and opposed to one on Paraguay petitgrain. The Tax Commissioners have therefore proposed reduced duties on both. Whether these will be adopted before the Chamber rises is uncertain. And it is doubtful if success will attend the pourparlers between the perfumers and the orange-flower growers.

Turpentine.

But for the large warehouse supplies available on this side, there is no doubt that the constant inclination on the part of dealers and speculators to support values for forward delivery would have already resulted in a more notable price-advance at this time of the year. The market, nevertheless, has exhibited remarkable stability, in spite of the little pressure occasionally experienced in the way of liquidations on the spot. Compared with the past year, it might be argued that prices are quite high enough, but it must be remembered that conditions during 1913 were altogether abnormal in consequence of the severe financial disturbances in America, which involved the collapse of the huge concern which had practically entire control of the market for many years. Current prices are now only but little under the highest point seen for some considerable time for a few years past, and there is certainly no reason for consumers to apprehend any material set-back. On the contrary, the

tendency should be rather in the other direction, for various reasons. Not only is the statistical outlook quietly improving through the maintenance of a regular good consumption at very reasonable prices and the much lighter supplies now coming into sight, but prospects of the new-crop yield are not spoken of favourably. Weather conditions in producing centres have been mostly adverse the last few months, and it remains to be seen as to how far new-crop operations will be affected by the rather unremunerative state of the industry for some considerable time past. Much was expected at one time from the development of the new distillation process from the wood, but the production of the so called "stump" turpentine was practically brought to a standstill through the severe depression. The future course of the market depends to some extent upon the prospect of a revival of that industry. Meanwhile the situation will be ruled by the prospective supply of gum spirit. The position in America is now aparently tolerably sound, the receipts coming forth at the distributing centres being only light and easily taken care of, while the shipments to this side have been on a reduced scale which had already its reflex in the material falling-off in our imports. The more enterprising American firms identified with the industry have, there is ground for believing, made efforts to infuse more confidence into the market, and there is just a possibility that an understanding may eventually be arrived at to restrict the output for the new season. The London deliveries so far this year are well ahead of last year, and the London visible supply is only about 6,500 barrels larger than a year ago.

New Zealand Honey-crop Prospects.

The New Zealand Director of Apiaries has received the following reports on the honey-crop prospects from the apiary instructors: *Auckland.*—Bad weather conditions continued up to Christmas, and the prospects of a fair crop were then very remote. Since, however, better weather has prevailed, and honey is at the present time coming in freely, but what the crop is likely to be remains doubtful. *Wellington.*—Recent rains have thoroughly refreshed pastures. Should suitable weather now follow, there is every prospect of a very good crop of honey. There will be no lines offering until this season's crop has been extracted. *Christchurch.*—Right up to December 18 cold winds, rain, and occasionally snow have been almost a daily occurrence. These unseasonable conditions have kept everything backward. Many bee-keepers had to feed to keep queens laying, although there are exceptions to the above in some sheltered localities, but as a general rule the prospects are not so good as this time last year. In the latter part of December an improvement came, and a good flow has at last set in, giving bees and bee-keepers a better heart to work. A small shipment of graded honey left Christchurch at the end of the month, and another small lot was forward to be shipped in January. *Dunedin.*—Clover pastures are looking excellent, owing to a spell of fine weather. Should present conditions prevail, there is every prospect of a good season. Bee-keepers are delighted with the change. In the early part of December bad weather prevented the bees from working, and losses were reported owing to a shortness of stores.

CREDITORS' MEETING.

A largely attended meeting of the creditors of Messrs. Samuel Lambert & Co. was held at the offices, 14 Mincing Lane, E.C., on March 20, Mr. C. F. Gerhardt being in the chair, when a statement of affairs, as estimated on March 20, 1914 (trading accounts only), was submitted by Mr. G. A. Petter, C.A., 45 Bedford Row, London, W.C. After a lengthy discussion, a committee of four was appointed with full powers to act in conjunction with Mr. Petter.—Another meeting was held on March 24, when it was recommended that the business be carried on by the trustee (Mr. Petter), in conjunction with a committee, for the benefit of the creditors, until a composition, to be agreed upon, is paid, when the business will revert to Mr. R. M. Lambert, who, it is proposed, should in the meantime act as manager. This proposal will be considered at a meeting called for March 27.

"The Medicine-chest" is the title of an article in the "Dundee Advertiser." "I insisted on my husband buying me a medicine-chest when we married," says the writer, who must have been a very far-seeing lady. "It is quite a handsome affair, with copper fittings and a key that would not disgrace a church door." We have never seen a medicine-chest like that, nor a couple who so early in their married days provided in so concrete a form for future squalls. That can be arranged for in something the size of the key nowadays.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Indicators for Alkalimetry.

Sir,—In a recent paper on indicators of alkalinity and acidity no mention was made of cochineal. I think some of the very scientific young men regard tinct. cocci as being too pharmaceutical. It is, all the same, an excellent indicator—perhaps the best for some purposes. I consider it the best for titration of alkaloids; but there seems to be some difference of opinion as to its merit compared with methyl-orange. It would be interesting to have the views of some of your readers who have experience in analytical work.

Yours, etc.,

Edinburgh. D. B. Dott.

Patents and Trade-marks.

Sir,—Your readers have already gathered from a notice in your columns that an amendment of the Patent and Trade Marks Act is contemplated. No doubt many of those who have read that notice are deeply interested in the matter, and would be glad to take such action as their interests may require. May I therefore point out that the Institute of Inventors, 20 High Holborn, W.C., is endeavouring to ascertain the views of inventors generally, and will be glad to receive any suggestions that may be sent either to our Secretary or the undersigned?

Yours sincerely,

Walter F. Reid,

Chairman, The Institute of Inventors, London.

Observations on Reflections.

Sir,—Will you allow me to make one or two observations on the remarks with which "Xrayser" honours my "Afterthoughts"? I hope he will not take it amiss if I say that it seems to me that though his remarks contain much that is good and much that is original, the original things are not good and the good things are not original. For example, it is all very well to hurl at my head a platitude about the excellence of forethought. One good platitude deserves another; and, paraphrasing his opening sentence, I would say that his observations would be none the worse if he mixed a little example (of forethought) with his precepts. May I further suggest that his outlook appears to be to be too restricted?—he sees pharmacy isolated instead of seeing it as an integral part of human affairs. From what museum of the antiquities of political thought did he rescue his notions about the dividing tendencies of autonomy and the schismatic effects of management by departments? He mentions Courtney; he even speaks for Courtney and for Courtney's mind. Let him read Courtney, and ten to one he will drop his ideas of Unionism-run-mad. At present he really must not venture to tell us what would tax Courtney's mind, and it would be superfluous to tell us what would tax his own. Let him widen his horizon, think less parochially, study the effects of federation, with its unity amid diversity, and then, wiser and older, try again. I am, Sir, yours, etc.,

Chester. R. Cecil Owen.

Diachylon Plaster.

Sir,—Your note *re* the sale of diachylon in this week's issue is a timely warning. I have had repeated requests for this article recently, and only a few days ago I had a

letter from a military town in which Mrs. ——— requested me to send sixpennyworth of diachylon. Mrs. ——— was quite unknown to me, so I returned her P.O. with a polite refusal to supply. All the other requests were refused.

Yours,
R. A. G. (168/30.)

Sir,—After a local case of poisoning from diachylon three years ago, in which I was in no way concerned, I decided, for the future, not to sell the lump plaster to the public, and I do not think it has done my business any harm. At the same time I tried to influence my "brother pills" to petition the Pharmaceutical Society to place it in Part I. of the schedule, but the general feeling was that Part II. would be better. I was very pleased with the Newcastle decision. Yours very truly,

Middlesbrough. A. Lee.

Proprietaries for Insured Persons.

Sir,—I thank "M. P. S." for his reply. I asked him who was to be the judge as to whether 500 tablets was excessive prescribing, and he refers me to a Pharmaceutical Committee's report upon the general question of prescribing proprietary articles. He does not even disclose what the 500 tablets were. He also asks whether I have "ever received a prescription written for a private patient for conf. sennæ 2 lb." I don't see what bearing this has upon the proprietary question, but it does seem to show how willing some chemists are to teach doctors their business. Presumably "M. P. S." regards it as excessive prescribing. I suggest that in an appreciable number of cases it would not be so; on the contrary, it would be most economical from the standpoint of the Drug Fund. Economy of the Drug Fund is the excuse for all this talk about proprietaries, and no case has ever been made out for it. The instances quoted by "M. P. S." in support of his argument are, in my opinion, poorer than the usual isolated examples put forward to support the general charge of expensive prescribing. Moreover, not one or two, nor 100 examples, even of actually excessive prescribing, furnish any sort of justification for the total prohibition of a single proprietary, much less for the prohibition of proprietaries in general. With regard to the report of a Pharmaceutical Committee referred to by "M. P. S.," in which it was suggested that the question of the prescribing of proprietary articles should be referred to a conference between representatives of the Panel and Pharmaceutical Committees, I would like to ask what would be the chief considerations in any such conference? Human nature being what it is, would they not, as a rule, be the floating sixpence and the limitations of the Drug Fund, as distinguished from considerations of what a doctor would judge to be the most suitable remedy to prescribe if there were no floating sixpence, and of what the chemist would be willing to dispense if he were sure of being paid? That the chemist should be expected to finance the Insurance Act at his own risk is outrageous, and I would be the last to ask him to lose a single penny in that way. Nor am I at all surprised at the attitude of a great many doctors over the floating sixpence, but I do reprobate the appeal that this floating sixpence is bound to make (and probably was intended to make) to one of the basest motives that actuate human nature.

To separate the drugs from the doctor was a thing devoutly to be wished for. Much was made of it in propaganda, but is it true to say that the drugs have been separated from the doctor? Far from it. The doctor is personally interested in the drugs to the extent of 6*d.* per head. It he can be sufficiently economical with his medicines, if he can skimp the treatment of his patients sufficiently to keep the cost of drugs below a certain point, he gets an extra 6*d.* per head. He never knows where he is, how much he will have to skimp, or how extravagant his neighbour will be; so where the 6*d.* appeals he is tempted to make its acquisition as certain as possible. . . .

Take the case of a conscientious panel doctor who wishes to do the very best he can for his patients, but who, nevertheless, recognises the limitations of the Drug Fund. Assume that he has prescribed, with due regard to all the circumstances, say, 2 lb. conf. sennæ for some chronic case where a cure is not to be expected, and where a long course of ameliorative treatment is indicated; or, perhaps, that he has prescribed 500 thyroid tablets in a condition where perpetual treatment is required, and that he has had to appear before some committee or joint committee and have his prescription discussed and criticised by pharmacists, and perhaps by panel doctors whose minds were fixed upon the floating sixpence. He may even be surcharged with the drugs. In what sort of spirit would that man thereafter approach his patients? I think he would either withdraw from the panel, or he would come to the conclusion (1) that life would be easier for him if he confined his prescriptions entirely to the B.P., even when infinitely more effective treatment is available; and (2) that he would prescribe not more than a few days' treatment, even in chronic cases, notwithstanding that the Drug Fund would be depleted by the additional dispensing-fees that would have to be paid in connection with such prescriptions frequently repeated.

In conclusion, I recognise the difficulties under which the administration of the Medical Benefit of the Insurance Act is being attempted. The things are happening that might have been expected to happen where such strong appeals are made and enforced upon self-interest, to say nothing of the opportunities afforded for "rehabilitating pharmacy." The outlook for pharmacy is dark indeed if its interests can only be subserved by the policy of substitution and prohibition so openly enforced in many quarters ("M. P. S.," I judge, is by no means a great offender), and the arbitrary interference with therapeutical questions by a host of persons who are very inadequately qualified to assume responsibility in such grave matters. If we are to emerge from the present state of muddle and confusion with any credit or lasting advantage to ourselves, we shall have to take a broader view of the spirit and intention of the Insurance Act as regards the people insured, and, if necessary, refuse to work it under existing conditions.

Scrutator. (170/53.)

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

The Way of the Indexer is ——.

"'Year-book of Pharmacy, 1913,' p. 703. 'Umney, J. C., and E. J. Parry: Unification of Methods for Commercial Analysis of.' It would be interesting to know what a commercial analysis of these two gentlemen yields."—*Edina* (171/9).

An Ardent Student.

The drug-department of Messrs. Booker Bros., McConnell & Co., Ltd., Georgetown, Demerara, recently received the following letter from an East Indian customer, who has taken up photography:

Sir,—I am quite well. and I hope you as I am. 19th day of jun at Monday I baught one packet plates 2½ x 3½ by one shling from you, and I told, that what I will want I will write in letter to you. because I would not get the Learn always. for that I write this Letter to you for Alum 1½ ozs. you send me and write the Letter also for that s price. When I will get the alum 1½ ozs. I will send the Money. God save you for a long time and you live long.

Profits and Expenses.

"I used to buy a particular speciality in one-dozen lots, this quantity being sufficient for one month's supply. The profit was 4*s.* per dozen, or 50 per cent. on my outlay. This was repeated twelve times a year, so that, according to some of your correspondents, my profit on the original investment of 8*s.* was 48*s.*, or 600 per cent. per annum. But I discovered that I could buy a gross of the same article for 84*s.*, or 7*s.* per dozen, and, as the price is protected, my profit is now 5*s.* per dozen, or 60*s.* for the year. (In point of fact the sales have gone up, but I leave it at that figure for the sake of the calculation.) According to the same reasoning my profit on the gross quantity is 70 per cent. per annum. In other words, if I buy in small quantities and sell at a less profit, I make 600 per cent. on my outlay; whereas, if I buy in large quantities and get a better profit, I only make 70 per cent.! This is what Euclid would have called a *reductio ad absurdum*."—*A. B.* (168/62).

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Urotropin in Acid Mixture.

Sir,—Would it be considered necessary to suggest to the physician the probability of the liberation of formaldehyde from the following prescription?—

Sodii acid.-phosphat.	gr. xxx.
Urotropin.	gr. x.
Aq. ad	ʒj.

Mitte ʒviij.

Yours truly,
W. E. B. (156/42.)

[It is not necessary to make this suggestion to the prescriber, there being no ground for it. Formaldehyde is not liberated in the mixture at ordinary temperatures; even when heated to boiling-point only a faint whiff comes off in the steam. Urotropin is a fairly stable compound, and not readily split up. The combination of sodium acid phosphate and urotropin is frequently prescribed. Sodium acid phosphate is administered to produce an acid condition of the urine, in which condition urotropin is supposed to split up with formation of some formaldehyde. The proportion of this in the urine, however, can only be very small, and it is a question whether the beneficial effect resulting from the administration of urotropin is not due more to the properties of the substance itself rather than to the small quantity of formaldehyde set free from it.]

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Cook (155/68).—The Geneva Convention Act, 1911, prohibits the use in trade without sanction of the Army Council of the red cross on a white ground, or the words "Red Cross" or "Geneva Cross." It is not unlawful to use the red cross on a coloured ground—*e.g.*, a pale blue, or any other colour not white. See the *C. & D. Diary*, 483.

Hull (160/22).—A retailer who is not on the panel, or anybody else, may exhibit such a notice as "National Insurance prescriptions received here." So far as the National Insurance Act is concerned this is not an offence, but if the chemist, in addition to receiving the prescriptions, sends them to a panel chemist and gets the compounded medicine from him and hands it across the counter to the panel patients, this constitutes an infringement of the Pharmacy Act every time that the medicine dispensed contains a scheduled poison.

C. D. (168/63).—The sale of strong solution of ammonia in soda-water bottles is by the Poisons and Pharmacy Act, 1908, an offence under Section 17 of the Pharmacy Act, 1868. Anyone may take proceedings—you, for example, or the police or the Pharmaceutical Society; in fact, anybody. The Pharmaceutical Society consider that they are not called upon to undertake Section 17 prosecutions in such cases as strong ammonia, they being of opinion that it is a matter that the police ought to deal with. The police also grudge the expense of prosecution.

Norfolk (23/94), a chemist and druggist, takes over a business carried on by a pharmaceutical chemist. How long may he retain the signboards, labels, etc., bearing his predecessor's name and title? Will the word "late" painted on outside signs and printed on labels prevent any infringement? [They may be used indefinitely if the chemist and druggist is careful that he does not assume, use, or exhibit them in such a way as to imply that *he* is registered under the Pharmacy Act, 1852. The mere use of the word "late" may not in all cases suffice; it would be necessary to see the existing signs, labels, etc., before expressing an opinion. There is no difficulty in the case of a pharmaceutical chemist succeeding a pharmaceutical chemist or chemist and druggist.]

S. F. B. (168/64) asks if he may recover portion of a premium paid under the following circumstances. He was apprenticed for a term of four years, and has served sixteen months. At the end of this time his employer was taken ill, and is now unable to conduct the business, which was sold. His successor is not agreeable to allow "S. F. B." to complete the term under his charge, and the apprentice has therefore left. [The employer has not carried out the terms of his contract, and, in consequence, must make good to the apprentice or his guardian the equivalent of the unexpired term of the contract. If "S. F. B." is willing to take only a portion of the premium, all the better for the employer, who, if the apprenticeship indentures are of the ordinary type, is under contract for the term of years specified therein.]

Ferret (168/68).—The Food and Drugs inspector appears to have acted quite regularly and according to the law, which says that "the person purchasing any article with the intention of submitting the same to analysis shall, after the purchase shall have been completed, forthwith notify the seller or his agent selling the article his intention to have the same analysed by the public analyst, and shall divide the article into three parts to be then and there separated, and each part to be marked and sealed or fastened up in such a manner as its nature will permit, and shall, if required to do so, deliver one of the parts to the seller or his agent." The presence of a witness other than the seller is not required by the Act. Naturally the seller must be present. It is, as you say, customary for the inspector to come in and divide the sample in the purchaser's presence, but there is no stipulation in the Sale of Food and Drugs Act, 1875, that this shall be done.

Penso (168/26) wants to know if it is legally necessary for a manufacturer of veterinary medicines and preparations, disinfectants, sheep-dips, etc., to employ a qualified chemist to make them up. They are only sold to farmers, horse owners, and other agricultural consumers. The goods are put up in suitable bottles, tins, drums, boxes, etc., for transit. Those containing poison are distinctly labelled "Poison," bear the name and address of the makers, and the purpose for which they are to be used. [In so far as the manufacturing is concerned the Poisons and Pharmacy Acts do not require the manufacturers to employ a registered chemist and druggist; but in respect to the sale of the products, those that contain poisons within the meaning of the Poisons and Pharmacy Act, 1908, may only be sold retail by or under the direct supervision of a registered chemist and druggist, unless the sales are by wholesale to retail dealers in the ordinary course of wholesale dealing. We do not consider that farmers, horse-owners, and other agricultural consumers are retail dealers within the meaning of the statute. Disinfectants and sheep-dips which contain carbolic acid are subject to the provision contained in the second part of the Poisons Schedule, while sheep-dips containing arsenic or the alkaloids of tobacco are subject to the provisions of Section 2 of the 1908 Act, and may only be sold retail if the unqualified seller is licensed to sell poisonous preparations for use in agriculture or horticulture, and under the conditions specified in the Act, which embrace labelling with the name of the retailer, entry of each sale in the book kept for that purpose, and other formalities which are detailed in the *C. & D. Diary*.]

Strychnos (170/35) puts this case: A retail chemist sells 1 oz. of strychnine to a farmer, who signs the poison-register, the other requirements of the Poisons Act being complied with. The chemist discovers his stock of strychnine is very low, so sends an order to his wholesale house with his poison and address labels, also addressed tally, requesting them to forward 1 oz. strychnine, using the enclosed labels. They forward the strychnine to the chemist, stating that they could not despatch a scheduled poison requiring signature to the customer of a retailer, as this act constituted them "the seller," notwithstanding the fact the sale had been made personally by the retailer to the farmer and his labels supplied to the wholesale firm. Is this contention sound in law? [If the decision in Pharmaceutical Society *v.* White did not exist, we should answer without hesitation in the negative; but in that case (where a retail trader transmitted an order to a manufacturer, and the latter delivered to the purchaser) the Court of Appeal adhered to the House of Lords judgment in the company case that the actual seller within the meaning of the Act is the person who sells the poison, meaning thereby (we think) *the person from whom the purchaser gets the poison.* The matter is not free from doubt, since, on a question of accounts, the retailer is the purchaser and the wholesaler the seller; but we are bound to regard the Poisons and Pharmacy Acts as a special modification of ordinary conditions of sale, imposing the intervention, between the public as purchasers of poisons and the source of supply, of specially qualified persons (chemists and druggists), who are required by the law to observe certain conditions in selling that are not imposed upon wholesale dealers. The latter may sell on exemption conditions to retail dealers only in the ordinary course of wholesale dealing.]

D

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

Alpha (140/14).—Furniture-worms.—The small holes which are found bored in old furniture and books are the work of the *Anobium domesticum*, *A. striatum*, *A. tessellatum*, or *Ptilinus pectinicorius*. Old wood carvings are often riddled by these beetles, and you will have noticed that the thirteenth-century timbering of Westminster Hall has been found to be in a deplorable state owing to the ravages of this pest. A small committee of experts is to try and discover a chemical means of combating the evil. In the meantime it may be recalled that so long ago as 1864 a committee appointed by the Department of Science and Art reported that fumigation with benzine kills the beetles, and that a solution of mercury perchloride in spirit (60 gr. to the pint) prevents wood carvings from being re-infected. As long ago as 1855 the carvings in the Mercers' Hall, Cheapside, London, were treated by an expert for the same trouble. He employed the following method:

Litharge	2 lb.
Red lead	2 lb.
Linseed oil	16 gals.

Boil together for six hours, then when only just warm incorporate with the oil—

Camphor	1 lb.
Beeswax	6 lb.
Turpentine	1 gal.

The carvings were soaked in this liquid for twenty-four hours and drained. Years afterwards the carvings were examined and found still to be free from the beetles. At about the same time the Grinling Gibbons carvings at Belton House were treated for worm-holes by soaking in solution of mercury perchloride, the colour of the wood, which is somewhat bleached by the soaking, being restored by ammonia, followed by weak hydrochloric acid. Finally, a solution of resin in spirit was applied. The idea of using mercury perchloride seems to have originated with Davy and Faraday, who were consulted as to the remedies for the ravages of the beetles in the famous Spencer library at Althorp. These scientists hesitated to recommend the use of mercury perchloride in the particular circumstances, owing to the danger to the users of the library. We ought to remind you that the anobii are also known as the death-watch beetles, the call of many hundreds of the beetles producing the noise which was thought to foretell a death in the house. Dean Swift prescribed "a kettle of scalding hot water" for the furniture, when, he said, "the omen is broken, the danger is over, the maggot will die, the sick will recover."

E. A. T. (169/9).—If your last request was like the present (without name or address), it is not surprising that you have not found what you want, as it proves you to be so unobservant as to have overlooked the first memorandum in this section.

M. P. S. (161/57).—Several books on the lines you mention are published, but they are principally old works and cannot be recommended, as there has been such a revolution in the treatment of animal diseases during the last twenty years. Consult any veterinary bookseller's catalogue. An Occult Spavin is what results when the nerve-formation affects the interior of the joint, and cannot be felt or seen externally. It is very painful and is accompanied by excessive lameness. It is usually a long time before a cure can be effected. Lin. potass. iod. c. sapone may reduce the swelling in time, but foment or poultice first, then apply the following:

Hydrarg. iod. rub.	ʒj.
Potass. iodidi	ʒj.
Iodi	ʒj.
Cantharidis	ʒj.
Adipis	ʒij.—M.

This treatment is also good for splint.

Gentian (168/43).—In regard to wool-balls in lambs, see the explanatory article in our issue of March 8, 1913, p. 399. We do not know who are the publishers of the book you mention.

Sweated (169/57).—A doctor's dispenser authorised to undertake Insurance dispensing is worth from 40*s.* to 55*s.* a week, according to locality and the nature of the work done.

C. R. W. (167/47).—Acid Phosphate of Sodium was first proposed by Dr. Robert Hutchison in 1903 for rendering the urine acid in cystitis or after operations on the bladder. The salt is very soluble in water. "It may be given," states Dr. Hutchison, "in doses of from 30 to 60 grains every three hours, but it is better to give smaller quantities oftener, so as to secure continuous elimination. A convenient plan is to dissolve ʒij. in Oj. of water, and allow the patient to drink small quantities of this from time to time." If diarrhœa is produced the administration of the salt is stopped for a time. Sodium acid phosphate is a useful adjuvant to urotropin, which acts best in acid urine. Dr. Robert Maguire also proposed to use the salt in cases of oxaluria. He administered in one case daily 2 oz. dissolved in 10 oz. of water, and in six weeks all symptoms of stone had disappeared, there being reason for believing that the stone was dissolved.

Bismuth (162/33).—The formula for stainless iodine ointment given in the *C. & D.*, March 14, 1914, p. 132, indicates the lines upon which you should proceed to imitate the ointment you send.

Mel (169/74).—Terra Rosa, or Rose Pink, is whiting coloured with a decoction of Brazil wood. Alkalies change the colour to crimson, and therefore it is not easy to account for the loss of colour in your tooth-paste, seeing that it contains soap. It is possible that, as the expression "terra rosa" is now somewhat indefinite, the sample you employed for one batch of the tooth-paste was not prepared with Brazil wood, but with aniline dyes.

Oriental (165/5).—Shampoo-powder for Dry Use.—See *C. & D.*, April 19, 1913, p. 66; March 23, 1912, index folio 460; March 18, 1911, index folio 417; July 29, 1911, index folio 226; and November 25, 1911, index folio 800.

C. & Co. (163/68).—Adenoids Ointment.—The only distinctive ingredient of the sample of ointment you send is eucalyptus oil; the basis is a paraffin one. We are somewhat sceptical as to the benefit likely to result from the use of this ointment.

J. R. (166/38).—Reading of Hydrometers.—The citrometer is, we believe, intended to indicate the number of grains of citric acid in each ounce of lime-juice, but, as the graduation of these hydrometers is entirely conventional, we cannot be certain. You can, however, easily test if our surmise is correct. The acetometer probably indicates the strength of the vinegar in commercial terms, although, if that is the case, the range of the graduations is unnecessarily wide. The numbers 18, 20, 22, and 24 applied to vinegar indicate the number of grains of pure dry sodium carbonate required to neutralise 1 oz. of vinegar. The real weight of acetic acid in 1 oz. of liquid may be found by multiplying its number by 1.132 and the percentage by weight by multiplying by 0.259. Thus No. 24 vinegar should contain 6.22 per cent. of absolute acetic acid.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1864.

The Chemists of Edinburgh and the New Pharmacopœia.

At a meeting of Chemists and Druggists, held in 5 St. Andrew Square on the 8th ult., Mr. Robertson in the chair, for the purpose of considering the changes rendered necessary by the publication of the British Pharmacopœia, it was agreed:

1. That it is desirable the formulæ of the British Pharmacopœia be adopted as speedily as possible. As, however, it may be presumed that many practitioners will continue to prescribe by the old formulæ, in order to guard against mistakes, it is recommended in the meantime that a double set of bottles be kept where this is felt to be necessary.

2. That all prescriptions of older date than the publication of the British Pharmacopœia be dispensed according to the formulæ then existing.

3. That when a prescription is now dispensed, and any preparation of the British Pharmacopœia employed, this fact should be intimated by the insertion of the letters B.P. by the party by whom it is first dispensed.

4. That when liquor taraxaci is ordered the succus taraxaci of the B.P. is to be given; but when extractum fluidum taraxaci is ordered the dark-coloured preparation is to be used.

5. That as the B.P. contains no directions as to the division of the pill masses, it is agreed, unless otherwise specially ordered, that all the pills made according to the new formulæ weigh four grains, instead of five, as has hitherto been the case, with the following exceptions: Pil. Opii, Pil. Calomel Co., and Pil. Ferri Carb. Sacch., which shall each weigh five grains.

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Bicarbonate of Soda.

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Concentrated Crystal Soda.

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali.
58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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Butler & Crispe.
Clay, Dod & Co.
Cockburn & Co. (Lim).
Corbyn, Stacey & Co.
Dakin Brothers.
Davey Hill & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.).
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan.
Harkness, Beaumont & Co.
Hatrick, W. & R., & Co.
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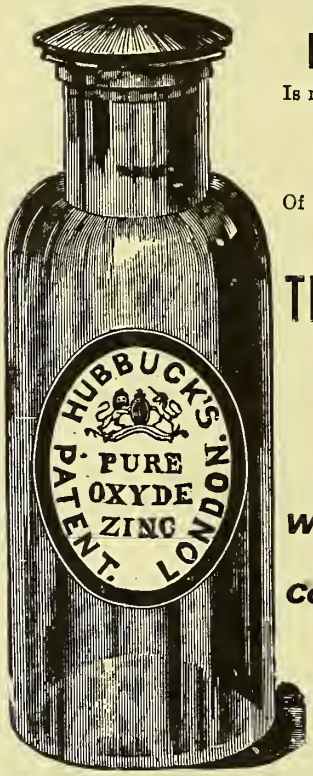

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It's free. We want you to learn how this rich, creamy lather soothes and heals the face. When you have tried it you will WANT to recommend it to every man who comes into your shop.

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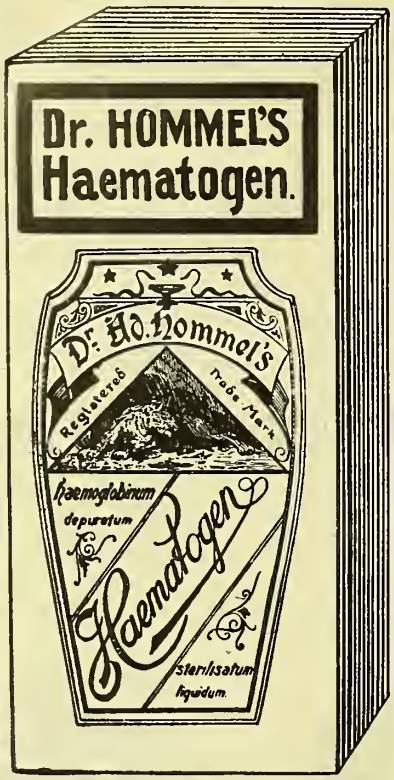

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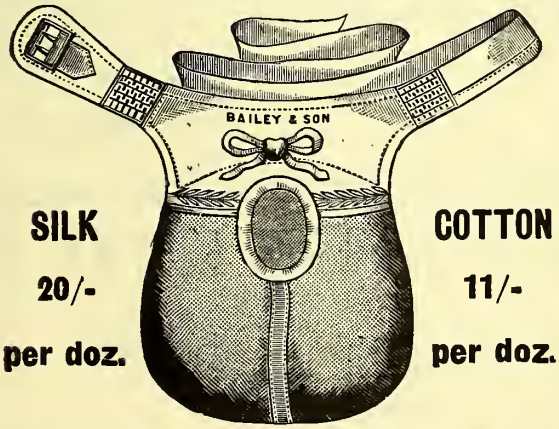

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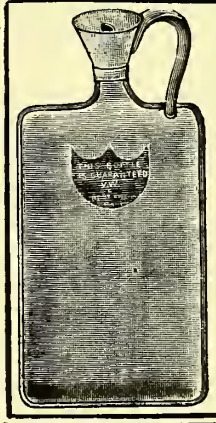

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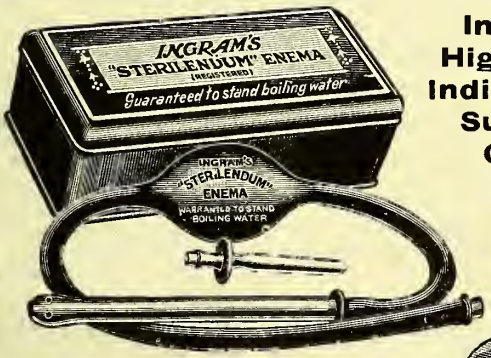

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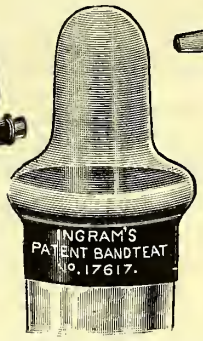

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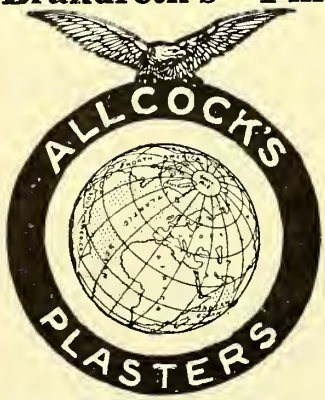

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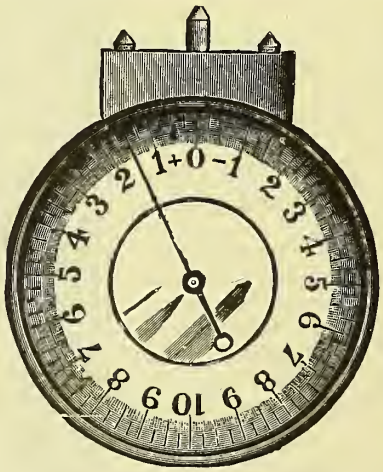

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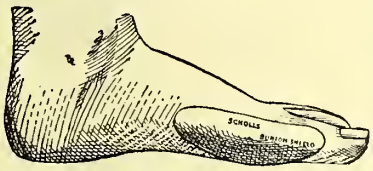

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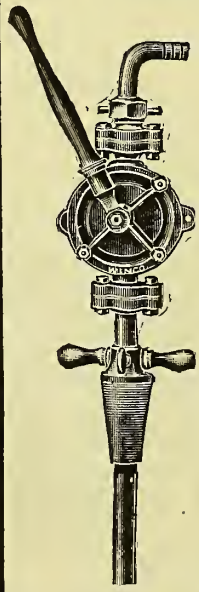

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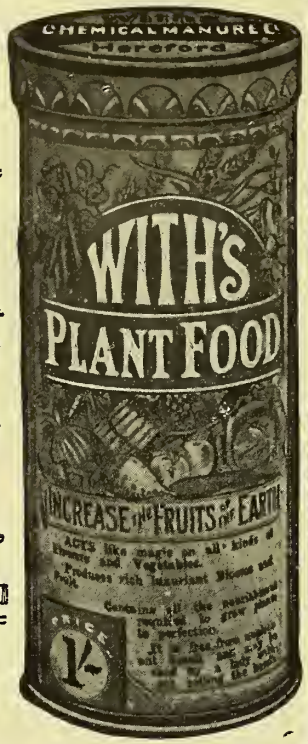

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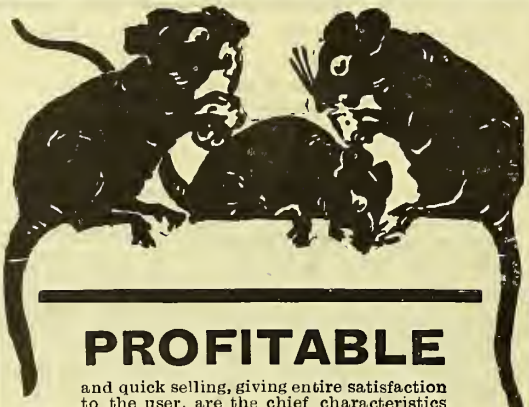

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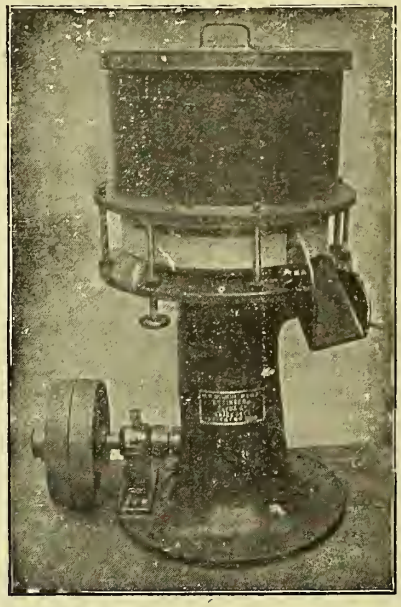

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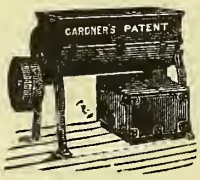

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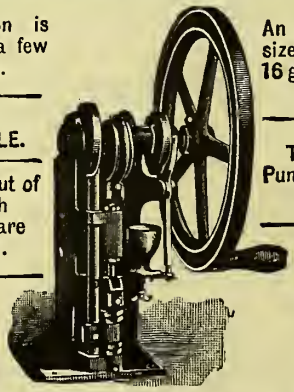

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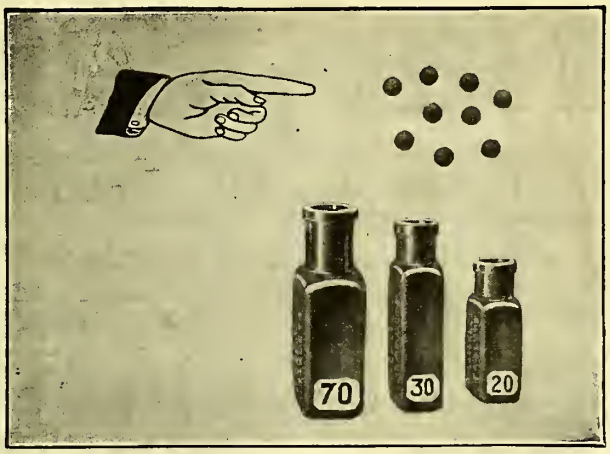

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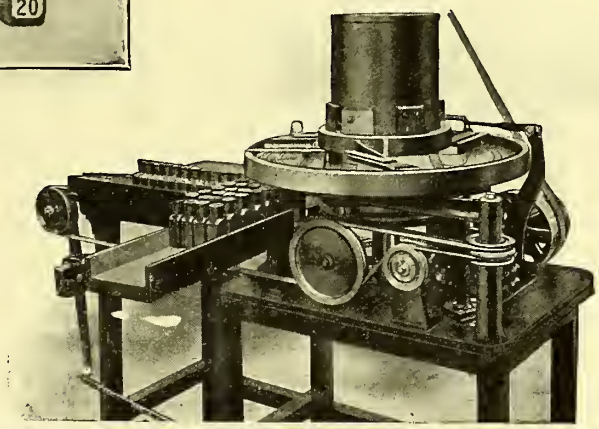
OUTPUT 600—1200 BOTTLES per Hour.



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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, MARCH 28, 1914

Telephone Number: Bank 852 (two lines). Telegraphic Address: "Chemicus, Cannon London" (charged as two words)

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CITY.—Young qualified Assistant wanted; outdoors; no Sunday or night duty. Apply, in first instance by letter, to E. D. Foster, 56 Bishopsgate.

COLWYN BAY.—Unqualified Assistant for Season; good-class Retail, Dispensing, and Photo experience; little Insurance. Neill, Chemist, Colwyn Bay.

COVENTRY.—Junior Assistant for Dispensing and Photographic business. State full particulars and salary required (outdoors), H. Wetton, White Street, Coventry.

CROWBOROUGH.—A thoroughly capable Junior required in good-class Dispensing business. Apply, with full particulars of experience, age, height, salary (indoors), G. H. F. Dier, Pharmacist, Crowborough.

DONCASTER.—A qualified Assistant required as Senior for good-class business, with Health Insurance work; must be a good Counterman and able to take charge during absence of principal; outdoors. Apply, with full particulars and salary required, to Walter E. Plant, Pharmaceutical Chemist, 28 High Street, Doncaster.

EARL'S COURT, S.W.—Experienced Assistant wanted, chiefly for Dispensing Counter; qualified preferred; three other assistants kept. Tupholme & Son, 1 Coleherne Terrace, Earl's Court.

GODALMING.—Qualified Junior Assistant wanted immediately; outdoors; good Dispenser. Mather, Pharmacist.

HULL.—Qualified Assistant wanted; comfortable berth; easy hours; duties light; middle-class district; permanency for suitable man. Apply, with full particulars, to 20/28, Office of this Paper.

HULL ROYAL INFIRMARY. — Wanted, Senior Dispenser (male); candidates must have the qualification of the Pharmaceutical Society of Great Britain and have practical experience in the Dispensing of Medicines; hours 9 to 5, later if required; luncheon provided. Applications, stating age, salary required, qualifications, with previous experience, accompanied by recent testimonials, to be addressed to the Secretary.

KENSINGTON, W.—Unqualified Junior Assistant on April 14; outdoors; quick and accurate Dispenser. Reply, with full particulars of age, height, references, and salary required, to James Garner, 106 High Street, Kensington, W.

KENSINGTON, W.—Junior Assistant required in a good-class Dispensing business; outdoors; no late duty; Sunday duty nominal. Apply, with usual details and enclose photo, to W. Ive, 221 High Street, Kensington, W.

LEAMINGTON SPA.—Capable Senior Assistant for good-class business wanted immediately; must be a good Dispenser and have some knowledge of Photography; qualification not essential; married preferred; permanency to suitable man. State age, salary, enclose photo, Fisher & Co., 35 Bath Street, Leamington Spa.

LEEDS.—Manager for branch; married preferred; good house; Light Retail and N.H.I. Dispensing; permanency for good man. Age, salary, and all particulars, and photo if possible, to "Chemicus" (19/39), Office of this Paper.

LIVERPOOL.—Competent Assistant required, to commence any time within the next six weeks; outdoors; unqualified preferred; smart Counterman essential; no Panel work. Full particulars to "Poarmacist," c/o Mr. John H. Egan, Medical Label Printer, 3 Fleet Street, Liverpool.

LONDON.—Lady possessing the Minor certificate required for N.H.I. Dispensing; comfortable permanency. State salary required, 24/13, Office of this Paper.

LONDON.—Junior Assistant required for good business; permanency. State age and salary required, 24/15, Office of this Paper.

LONDON.—Qualified Manager required for a modern Cash business; must be a good Counterman and Window-dresser, married man preferred; good terms offered to suitable applicant. 24/12, Office of this Paper.

LONDON.—For the second week in April, a qualified Assistant, about 24 years of age; indoors; moderate hours. Apply, stating age, experience, and salary expected, to H. S. Hairsine, 47 Haymarket, London.

LONDON, N.—Wanted, as Junior or Improver, one who has recently finished apprenticeship, for good-class Family, Dispensing, and Photographic business; outdoors. State salary required, age, height, experience, when disengaged, and enclose photo, Starmer, 92 High Street, North Finchley, N.

LONDON, N.—Qualified Manager; chiefly N.H.I. Dispensing; outdoors; easy hours. Apply, stating salary and particulars, 22/33, Office of this Paper.

LONDON, N.E.—Junior Assistant (outdoors) for a good-class Suburban business. State age, height, experience, and salary expected, also enclose photo (if possible), to Matthews & Son, Chemists, 722 High Road, Leytonstone, N.E.

LONDON, N.W.—Qualified Assistant wanted; age 25-30; a personal interview preferable, or write, giving usual particulars and salary required, to Stamp, 29 High Street, Hampstead.

LONDON, S.E—Junior Assistant required for a brisk Retail and Dispensing business; outdoors; easy hours; two kept; one just finished apprenticeship would suit. Applicants please state age, experience, and salary required to 24/2, Office of this Paper.

LONDON, S.W.—Qualified Manager, young, required to take charge Drug Stores, Earlsfield; salary £2 per week, rooms, and commission on profits. Apply, 22/10, Office of this Paper.

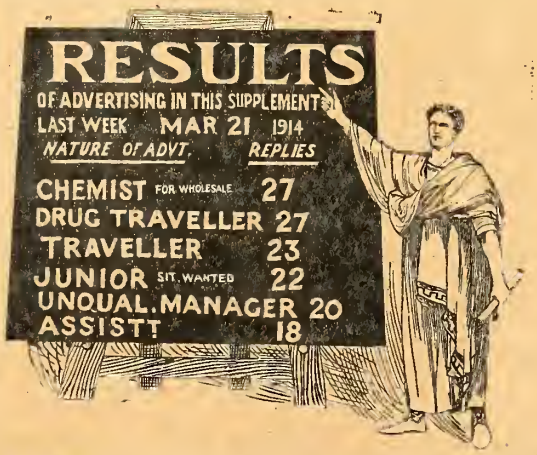
LONDON, S.W.—Assistant, indoors, unqualified, required for small Store business; occasional Sunday duty; half-day weekly; could arrange time for study. State age, previous experience, and salary required to "X.," 3 Soudan Road, Battersea, S.W.

LONDON, W.—Outdoors; Junior, about 22; easy hours; no Sunday duty; good experience. Crowe & Co., Foreign Chemists, 31 Wardour Street.

LONDON, W.—Qualified Assistant wanted immediately; must be good Counterman and accurate Dispenser; good references essential; outdoors. Apply, personally or by letter, photo, Spink & Co., 27 Tottenham Court Road.

LONDON, W.C.—Competent, quick, and reliable Assistant for Dispensing Counter; also one for Manufacturing and Stock-keeping. Apply, with full particulars, age, height, experience, and references, to J. Cofman, 6 Bloomsbury Street, W.C.

LONDON Suburb.—Qualified Branch Manager for good-class Retail, Dispensing, and Photographic; comfortable residential premises over shop; good prospect, with opportunity of acquiring an interest eventually. Give full particulars, including age, height, experience, salary expected, references, and photo, to 25/8, Office of this Paper.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

LONDON, West-End.—An unqualified Assistant, accustomed to good-class business, not under 24 years of age. Reply, stating age, experience, and salary expected (indoors), to 21/6, Office of this Paper

MANCHESTER.—Unqualified Assistant; about 22. State age, salary (outdoors), experience, and send copies of testimonials to W. H. Delve, M.P.S., 310 Stretford Road, Manchester.

MANCHESTER, near.—Qualified Assistant for Light Retail and Dispensing; elderly not objected to. Apply, 23/30, Office of this Paper.

NEAR Manchester.—Wanted, an Assistant; Dispensing and Window-dressing. 22/40, Office of this Paper.

OLDHAM.—Unqualified Assistant for quick Cash business; must be reliable and a good Salesman; salary 30s. per week and commission. 18/28, Office of this Paper.

PLUMSTEAD, S.E.—Junior Assistant (outdoors) required for good-class Dispensing and Photographic business. Apply to A. Goldthorpe, Chemist, 70 Herbert Road, Plumstead, S.E.

SOUTH KENSINGTON, S.W.—Outdoor Assistant, age 25-30, required for April 6; must be active and obliging, a neat and accurate Dispenser, good Window-dresser and Salesman, and thoroughly reliable. Apply, with usual particulars, or personally, to P. Bolton, English and Foreign Chemist, 5 Sussex Place, South Kensington, S.W.

THE ROYAL PORTSMOUTH HOSPITAL, PORTSMOUTH.—Male Dispenser required; candidates must be qualified Chemists and not more than 40 years of age; salary £110 per annum, rising to £130; lunch will be provided. Applications, with copies of testimonials, must reach the undersigned on or before April 4, 1914. B. Wagstaff, Secretary.

WAKEFIELD.—Wanted, for about April 17, Junior Assistant or Improver for General Mixed Retail and N.H.I. Dispensing. State full particulars of age, height, references, etc., T. C. Whaley, Chemist, 43 Kirkgate, Wakefield.

WESTGATE-ON-SEA.—Junior Assistant, about 22, for first-class Dispensing and Retail business; good Dispenser and knowledge of Photography; permanency; indoors; comfortable home. Please state experience, age, height, and salary required to Dixon, Chemist, Westgate-on-Sea, Kent.

WESTON-SUPER-MARE.—Active, capable Junior for Dispensing business, about 20; outdoors. Send photo and full particulars, salary, Wing, 8 Boulevard, Weston-super-Mare.

WEYBRIDGE. — Competent Junior Assistant (outdoors) for high-class Dispensing and Retail business; age about 22. Send full particulars as to experience and salary, enclosing photo, E. T. Neathercoat, Pharmaceutical Chemist, Weybridge.

WOOLWICH.—Vacancy in Drug Stores for smart Assistant; good Extractor, able to take Impressions and Fit Teeth, who understands truss fitting and the handling of surgical and rubber appliances; applicants must have good references and be capable of taking charge; lady attendant fitter and shop boy kept; hours 10 to 9, Saturday 10 to 10.30, Thursdays 1; no Sunday duty; commencing salary £2 per week; commission if satisfactory. Apply, by letter first, Drug Stores, Russell Place, Woolwich.

A YOUNG qualified Assistant wanted (outdoors), single, town and country experience, with knowledge of Photography; light hours; permanency. Enclose photo (to be returned), with usual reference and salary required, Gostling, 29 Market Place, Halesworth, Suffolk.

APRIL 18.—Wanted, Junior or Improver; good knowledge of Dispensing necessary; live out. Apply, Allen & Lloyd, Aldershot.

APRIL 20.—Smart Junior Assistant in first-class Retail and Dispensing business, West End; unqualified; in- or out-doors. Apply, stating full particulars, to "Aspirin," c/o British Drug Houses, 22 Graham Street, London, N.

ASSISTANT; outdoors; Dispensing, Light Retail, Photographic. Apply, with photo, references, and salary required, to W. Pitchford, 54 Cotham Hill, Bristol.

ASSISTANT, about 20-25, wanted for Photography and Counter; easy hours; Thursday half-holiday; Sundays once in three weeks, 6-8; one hour's journey from London. State salary required (outdoors), also age, height, and previous experience, to Geo. Durrant & Son, Hertford.

ASSISTANT required as soon as possible; accurate Dispenser; middle-class trade. State whether qualified or unqualified (permanency), Michelson, Chemist, South Shields.

ASSISTANT; unqualified; outdoors; accustomed to busy Retail; Counterman. Apply, with full particulars, to C. A. Marics, Pharmacist, Waterloo, Liverpool.

ASSISTANT for Cash Retail and N.H.I. business in artisan district; capable of taking charge occasionally; abstainer, and good references required. Eastwood, Chemist, Nelson.

ASSISTANT, unqualified. Apply, with usual particulars, photo if possible, C. Thompson, Chemist, Sparkbrook, Birmingham.

ASSISTANT, unqualified, age 23-25; must be good Salesman, Window-dresser, and reliable Dispenser; good salary to suitable man. Photo and full particulars to Lester & Williamson, Chemists, Great Heath, Coventry.

ASSISTANT, good Window-dresser and Dispenser. Full particulars first letter, Shackleton, Hereford.

ASSISTANT, qualified, as Senior and ultimate Manager; Store experience preferred, but not absolutely essential; reasonable hours and good salary; comfortable position. State age, height, experience, and salary required in first letter, photo if convenient, 24/9, Office of this Paper.

ASSISTANT for Optical Counter in first-class Dispensing and Optical business; an excellent opportunity of gaining experience in Optics; F.S.M.C. certificate not essential; no State Insurance Dispensing. State experience, with usual particulars, salary required (indoors), Saxby, F.S.M.C., Cheltenham.

ASSISTANT, age about 24 to 26; good-class Retail and Dispensing; time for reading or to attend lectures can be arranged. Apply, full particulars and salary required, W. Buddles, 46 Churton Street, Belgrave Road, London, S.W.

ASSISTANT; about 22; indoors; accustomed to good-class Dispensing; time for study. State usual and full particulars, and, if convenient, enclose photo, to G. Dauncey, 6 Nugent Terrace, St. John's Wood.

AT once, competent Junior wanted; outdoors; Light Retail and Dispensing. F. L. K. Loxley, 66 St. Giles' Street, Oxford.

AT once, Manager, qualified, capable of taking sole charge; N.H.I. Dispensing; must be obliging to customers and able to furnish undeniable references; also wanted, qualified Manager for seaside branch; must be well up in Photography and thoroughly trustworthy. Apply, stating salary required and usual particulars, to "East Coast" (24/5), Office of this Paper.

C. B. ALLEN & SONS, Pharmaceutical Chemists, 20 High Road, Kilburn, N.W., have a vacancy for a qualified Assistant with good Dispensing experience; outdoors. Apply by letter, stating usual particulars.

CHEMIST and Dentist, doing all Mechanical work on premises, has vacancy for Assistant. Please state full particulars, age, experience, where obtained, ability in Pharmacy and Dentistry, if married what family, class of business and hours used to, salary required, when disengaged, references, photo, Foster, Ivydale, London Road, Portsmouth.

COMPETENT Assistant, about 25, indoors, for good-class business. Full particulars, stating age, experience, and salary required, to S. T. Milbank, Pharmaceutical Chemist, Bishop Stortford.

COMPETENT gentlemanly Junior Assistant wanted; accustomed to good-class Retail and Dispensing business; outdoors; personal application preferred. Apply, Quibell, The Station Pharmacy, Golder's Green, N.W.

COOPER, SON & CO., LTD., 80 Gloucester Road, South Kensington, S.W., require a qualified Junior Assistant about the middle of April; West-End experience preferred. Apply, with full particulars, to "A. J. B. C."

DISPENSER and Bookkeeper wanted; country town; live out; wages 25s. per week; duties light. Reply, 20/38, Office of this Paper.

DISPENSER, Minor qualification, wanted about April 15 for London, E.; chiefly N.H.I. Dispensing; comfortable berth; hours 10 a.m. to 10 p.m.; liberal time for meals; 1 o'clock Thursday; duty every other Sunday 6 p.m. to 9.30 p.m.; salary £3 per week. Apply, by letter, with full particulars, to Breeze's, Ltd., 151 Plaistow Road, West Ham.

DISPENSER wanted, male or female; whole or part time. Apply, "Dr. X. Y. Z." (172/40), Office of this Paper.

ELDERLY qualified Chemist for Light Country Retail; easy hours. State age, salary required, when disengaged, "Chemist," Botley, Hants.

ELDERLY qualified Chemist required for a business situate in an industrial neighbourhood of Manchester; comfortable permanency. State salary desired, 24/14, Office of this Paper.

FRANK A. ROGERS has a vacancy for a qualified Assistant. Please state full particulars of experience, salary, etc., to 327 Oxford Street, W.

GOOD all-round unqualified Assistant wanted (Liverpool district preferred); one accustomed to Prescribing preferred. Apply, with full particulars and salary required (age between 25 and 30), to 23/18, Office of this Paper.

IMMEDIATELY.—Smart qualified Assistant; capable and industrious; good salary to suitable man; no Sunday duty. Apply, J. Edmunds & Co., Ltd., 33 High Street, Kingsland, N.E.

IMMEDIATELY.—Qualified Assistant, accustomed to first-class Dispensing; outdoors; permanent or temporary; for West-End of London. 22/11, Office of this Paper.

IMMEDIATELY.—Unqualified Assistant, Locum for two weeks. Jas. Wood, Ltd., 76 Bath Street, Ilkeston.

JEWELL & CO., Chemists, Upper Norwood, S.E., require a gentlemanly Assistant as Junior; outdoors; good-class business; short hours.

JUNIOR for Light Retail and Dispensing, with knowledge of Photography; must be a good Dispenser and smart Counterman; easy hours; no Sunday duty. Particulars and salary required (outdoors), W. H. Ludlam, Pharmacist, Fleetwood, Lancs.

JUNIOR Assistant wanted (indoors) for good-class Retail and Dispensing, with Photography; half-day weekly; one hour free daily; comfortable home; good salary to suitable man; permanency. H. C. Swaby, Hampton Court Pharmacy, East Molesey, Surrey.

JUNIOR Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, salary required to Matthews, Chemists, 146 Hoppers Road, Winchmore Hill, N.

JUNIOR wanted at once; hours 9 to 8; no night duty. Apply, James Epps & Co., Ltd., 60 Jermyn Street, S.W.

LADY Assistant required (able to Dispense and good at Counter) for first-class Family and Dispensing establishment. Please state full particulars as to references, height, experience, etc., and salary required, to Messrs. Holman, Ham & Co., 74 High Street, Exeter.

LADY Junior Dispenser and Bookkeeper, Chemist's Retail, neighbourhood of Golder's Green; beginner or inexperienced improver entertained. Full particulars, stating salary expected, to 25/80, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, have a vacancy for an unqualified Assistant; permanency and good salary.

MANAGER wanted at once for small Branch; qualified; Light Retail and Dispensing; single; indoors; permanency. State age, height, salary required, and full particulars of experience, enclose photo if possible (good references indispensable), 23/8, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

PART-TIME; Junior wanted; indoors; four afternoons weekly off for study; near South London Schools. State age and usual particulars, A. Peel, 7 Half Moon Lane, Herne Hill, S.E.

PORTER wanted; under 26 years of age; accustomed to Chemist's business. Full particulars to "A. J. B. C.," c/o Messrs. Cooper & Co., Ltd., 80 Gloucester Road, S. Kensington.

QUALIFIED Assistant wanted; hours, open 9, close Monday, Tuesday 7, Wednesday, Friday 8, Thursday 1, Saturday 10; no night work or Sunday duty. State salary, experience, etc., Sturton & Sons, Ltd., 18 & 20 Broad Bridge Street, Peterborough.

QUALIFIED Manager for Stoke-on-Trent, for Dispensing; easy and comfortable situation for suitable person. Usual particulars, etc., to "Aspirin" (19/23), Office of this Paper.

QUALIFIED Assistant required for branch; General Retail and N.H.I. Dispensing; another assistant kept. Apply, with full particulars as to age, experience, salary required, and references, to Innes & Son, Chemists, Stalybridge.

QUALIFIED Manager for Branch in small country town; suit newly qualified man or one about 45; easy berth. Ballard & Co., Faringdon, Berks.

QUALIFIED Assistant for London, N., age about 50; abstainer; outdoors; wages £2 weekly. Apply, first with full particulars of experience, to Brown, Chemist, 40 Essex Road, Islington, N.

QUALIFIED Assistant or Branch Manager wanted for good Retail and Dispensing business; outdoors; hours 8.30 to 8, Saturday 8.30 to 9.30; half-holiday. State full particulars and salary required to Wray & Thompson, 2 Wheelgate, Malton, Yorks.

QUALIFIED Assistant wanted for good-class Dispensing business. State experience, age, and salary, Handford & Dawson, 1 Station Bridge, Harrogate.

QUALIFIED Assistant required immediately for first-class Country Retail and Dispensing; must be good Counterman and accurate Dispenser; short hours; no Sunday duty; good references essential. State age, experience, and salary required to "Sylvan" (22/32), Office of this Paper.

QUALIFIED man wanted early in April to Manage Branch in Yorkshire residential village; good-class Light Retail and Dispensing; no heavy trade; indoors; thoroughly comfortable; easy hours. Apply, stating age, experience, reference, etc., to Hull, Pharmacist, Tadcaster.

QUALIFIED Manager wanted for branch early in April. State salary required and usual particulars, Booker, Chemist, Bentley, near Doncaster.

QUALIFIED Manager immediately for neglected branch; age 25 to 30; splendid opportunity for right man; hours easy; good Window-dresser, Salesman, Dispenser; state salary and usual particulars. Replies to be sent to 24/28, Office of this Paper.

QUALIFIED Junior Dispenser; indoors. Apply, stating age, height, experience, salary required, and enclose photo, to Giles, Senacht & Co., Clifton, Bristol.

QUALIFIED Manager for quick London Cash and National Insurance business doing a good trade; age about 30; must be able to give sound recent references as to ability as organiser and business builder; a fair salary and commission offered, with a view to interest in business on conclusive proof of capabilities. 25/24, Office of this Paper.

RELIABLE, qualified men wanted; no Sunday duty; good openings for competent men. Kindly state full particulars in first letter, experience, salary required, and when disengaged, and also enclose photo, to Superintendent, Taylors' Drug Co., Ltd., Post Office Box 141, Leeds.

SMART Junior required, with knowledge of Dispensing; must be good Window-dresser; to the right man excellent prospects; good salary and commission. Apply, stating fullest particulars, to 22/220, Office of this Paper.

TEMPORARY Assistant for month or six weeks; unqualified; indoors; pleasant neighbourhood and easy work; start at once. Terms, etc., W. E. Clarke, Ph.C., Strood, Kent.

UNQUALIFIED, capable Assistant; must be quick Dispenser, thoroughly reliable. State age, salary, and give references, Bailey, Chemist, Boston. Also qualified Locum for 10 days in June.

UNQUALIFIED Assistant in Family, Dispensing and Agricultural business; comfortable post for reliable man. Please send full particulars of experience, age, single or married, in first letter, 23/10, Office of this Paper.

UNQUALIFIED Assistant for good-class business, with Photography, about 30; outdoors; no Sunday duty; hours open 8.45, close Monday, Tuesday 7.30, Wednesday 1, Thursday, Friday 8, Saturday 10. Apply, stating age, height, experience, addresses of last three employers, salary required, enclosing photograph, to W. T. Hicks & Co., Duke Street, Cardiff.

UNQUALIFIED Assistant wanted, one capable of looking after business, as soon as possible; good Counterman, etc.; increasing salary to good man; salary to commence £2 per week. Apply, with photograph, to Wm. Hy. Bowling, Chemist, Pembroke Dock.

WANTED to-day, Dispenser-Bookkeeper. Full particulars to Dr. Cropley, Northampton.

WANTED, Manager for Branch; married, to live on premises; gentlemanly; good Salesman and Dispenser, with some Photographic knowledge; must be neat, accurate, methodical, and accustomed to good-class Family trade. State full particulars of experience, age, if any family, salary, and references, Tootill, Chemist, Altrincham.

£156 or more per annum and commission, according to experience and ability, for qualified Branch Manager, not under 26 years of age; must be energetic and enterprising and have a knowledge of Photography, and also be able to superintend the dressing of windows artistically and usefully; references must bear the strictest investigation. Apply, stating fullest particulars, and enclosing, if possible, latest photograph, to 22/22, Office of this Paper.

WHOLESALE.

LIVERPOOL. — Junior Invoice Clerk for Wholesale Druggists; must be quick and accurate and have knowledge of Drug trade. 23/7, Office of this Paper.

LONDON Wholesale house has a vacancy for a competent Entering Clerk, with practical knowledge of Sundries, Proprietaries, etc. Write, stating age, experience, and wages required, "Acacia" (173/43), Office of this Paper.

LONDON.—Thoroughly experienced Pill Maker wanted. State full particulars of age, experience, and wage required to 19/9, Office of this Paper.

CLERK required, with knowledge of Drug trade, by London Wholesale house, for Invoicing, Stockkeeping, etc.; Typewriting experience essential; age about 25. Write, stating salary required, when disengaged, and further particulars, to 171/10, Office of this Paper.

ENERGETIC, good Salesman wanted for London and suburbs by Druggists' Sundries house. 17/34, Office of this Paper.

EXPERIENCED Maker of Machine-made Gelatine Capsules. Address, 172/16, Office of this Paper.

EXPERIENCED Counter hands, aged about 24, with good knowledge of Wets or Drys, required; progressive appointments for energetic and competent men. State record and wages required to 25/28, Office of this Paper.

LABORATORY.—Strong lad wanted for making Ointment, Liniment, etc.; wages to commence with 14s. to 15s.; also Junior for Wet and Dry Counter. State age, experience, etc., to 23/4, Office of this Paper.

MANUFACTURERS of Perfumes and Toilet Articles want serious Representatives on commission for London and provinces, well introduced at Stores and large Chemists. 173/27, Office of this Paper.

REPRESENTATIVE required for part London by C. W. Johnson & Co., Agents for Honoré Payan, Perfumers, Distillers, etc., and Johann Maria Farina, Pantaleon Cologne; must have good connection. Write fullest particulars and remuneration required to 38 Great Ormond Street, Southampton Row, W.C.

REQUIRED immediately, for Wholesale Drug Department, young man, experienced Wet and Dry Counter; must be accurate and reliable worker. Apply, stating experience and salary required, 25/9, Office of this Paper.

TABLET hand wanted with good experience. State age, experience, and wage required to 19/90, Office of this Paper.

TRAVELLER for entire U.K., with bona-fide connection, to carry Proprietary as an extra line; only of interest to good man, well established, and desirous of a good side-line. State full particulars, in strict confidence, to "Roadknight" (170/21), Office of this Paper.

TRAVELLER, smart and experienced, wanted, with first-class connection amongst Chemists and Stores in provinces and London. Apply, with high-class references, F. Wolff & Sohn, 82 Hatton Garden, E.C.

YOUNG Pharmaceutical Chemist wanted by Dublin firm as Assistant in Works Laboratory. Apply, enclosing copies of testimonials, stating age and salary expected, to 15/35, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CALCUTTA.—Wanted, qualified Assistant, preferably Minor; must be good Salesman and have Photographic experience; four years' agreement, with annual increases; salary £15 to £20 per month, according to qualifications; second-class passage paid both ways. Apply, with particulars of previous experience, to "Export" (124/18), Office of this Paper.

SHANGHAI.—Qualified Assistant, about 23, required for old-established English Chemists; four years' agreement; passage paid out and home; terms (approximately) £180 first year, with annual advance of £24; furnished room and medical attendance provided. Apply, with full particulars, to 86/550, Office of this Paper.

REQUIRED, a fully qualified Chemist to take charge, in August, of a Pharmacy in India; age 30 to 35; four years' agreement; passage paid. Address, with all particulars, to "A. A.," c/o Henry S. King & Co., 65 Cornhill, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded.

ASSISTANT; 27; good Dispensing experience; Locum or Part-time; Brighton or district; highest references; moderate salary. "L.," 4 Wenban Road, Worthing.

ASSISTANT; 21; North or London preferred; Counter and N.H.I. "Rhoi," 25 Oxford Street, Normanton.

ASSISTANT; competent; 33; single; all best experience; very good Dispenser, also Salesman; salary 35s. (outdoors); excellent references. Nicholson, 3 Vale Road, Portslade, Brighton.

ASSISTANT, 24, accustomed to brisk working-class business, N.H.I., and Photographics, desires berth in S.E. district; energetic, obliging. "Eros" (24/29), Office of this Paper.

BIRMINGHAM.—Pharmacist desires Managership with view to early succession, or would act as Locum; large and varied Store experience; 30. "Optics" (25/20), Office of this Paper.

BRANCH Manager or Assistant; 32; married; neglected business preferred; town or country; can increase turnover. "Energy," 1 Stockwell Park Crescent, Stockwell, London.

BRANCH Pharmacy Manager; experience includes Dentistry and Optics; soon; unregistered. 22/23, Office of this Paper.

CONTINENTAL qualified Chemist, speaking French, German, and Italian, having experience in English Dispensing, requires situation. A. Wurtz, 76 York Road, Lambeth.

DISENGAGED; first-class Dispensing experience; good references. Please state particulars and salary, Department Z., 46 Beulah Buildings, Harrogate.

DISENGAGED; Locum, permanency; qualified; moderate terms. 4 Citadel Terrace, Plymouth.

DISENGAGED until 6, Monday all day; first-class Dispensing, experienced Insurance, Hospital Dispenser, neat Bookkeeper; smart, good Counterman. Gibson, 115 Scott-Ellis Gardens, St. John's Wood.

DISPENSER (Hall); whole or part time Dispensing, Doctor or Chemist; experienced; accustomed to N.H.I. 21/11, Office of this Paper.

DISPENSER; 26, unqualified; outdoors; London; 8 years' experience; disengaged. Apply, Kirby, 31 Goldsmith Avenue, Acton.

EVENING employment wanted by Drug Invoice Clerk; Liverpool; suit Doctor or Chemist. State particulars, 19/22, Office of this Paper.

EVENING employment required by Lady Dispenser; qualified. "E. B." 7 Carleton Road, Holloway.

EVENINGS, one or two weekly, Thursdays and Saturdays excepted. Hearne, Dispensary, St. Bartholomew's Hospital, E.C.

EXPERIENCED lady Dispenser requires position near Liverpool. 25 Cecil Road, Seaforth, Liverpool.

GENTLEMAN, qualified (30), tall, West-End and provincial experience, seeks permanent position as Manager or Senior. Address, Jackson, 53 Margate Road, Southsea.

JUNIOR; 21 years; 5 ft. 10½ in.; capable and willing; disengaged shortly; good references. 20/25, Office of this Paper.

JUNIOR, age 21, 7 years' experience, tall, seeks situation in Birmingham or near. "L. H.," 695 Foleshill Road, Coventry.

JUNIOR (19) desires situation in Dispensing business; Manchester preferred; outdoors; 4 years' good experience; disengaged Easter. 23/32, Office of this Paper.

LADY Dispenser (Hall certificate) desires post, Doctor or Institution; first berth. Address, Miss Rawlings, 18 Aston Road, Southsea, Hants.

LADY (35) requires Dispensership with Doctor; N. London preferred; outdoors; free end April; experienced Insurance work, Instruments, interviewing. "Delta" (18/31), Office of this Paper.

LADY Dispenser (Hall) requires post in London with Doctor; knowledge Shorthand, Bookkeeping, Nursing; three years' experience. "Colchicum" (20/29), Office of this Paper.

LADY Dispenser, Hall certificate, 8 years' experience with Doctor, Hospital and Chemist, requires situation in Bolton or district with Doctor or Chemist. 23/19, Office of this Paper.

LOCUM; reliable; experienced; satisfactory references; abstainer; 49; single; unregistered. "Statim," 73 St. Andrews, Uxbridge.

LOCUM; 30; unqualified; first-class experience; disengaged. "K.," 10 Kingswood Road, Norwood, S.E.

LOCUM or permanent; disengaged Monday; age 39; tall; good Dispensing and all-round experience. Longman, 229 Westminster Bridge Road, S.E.

LOCUM, Manager, Assistant; 29; unqualified; Dispensing, Prescribing, Photography; sound experience; reliable references. 22/29, Office of this Paper.

LOCUM; qualified; disengaged; 35; excellent references. 24/40, Office of this Paper.

LOCUM; 35; unqualified; thoroughly experienced. Dewar, 387 Katherine Road, Forest Gate.

LONDON.—Locum or Manager; 33; qualified; disengaged; good all-round experience. "Statim" (22/18), Office of this Paper.

M.P.S., R.D.S.; total abstainer; elderly; well connected; best of references; photo or interview; pleasant district; easy hours; terms moderate; now, later. 17/33, Office of this Paper.

MANAGER; qualified; M.P.S.; tall; 29; married; gentlemanly, of good address; abstainer; long, excellent references; quick; Counter, Dispensing, Photography, Bookkeeping; London or near.—19/16, Office of this Paper.

MANAGER; Locum; disengaged; 43; Major; varied experience; good references; outdoors. "T.," 95 East Ferry Road, Poplar, E.

MANAGER; 37; Minor qualification; high-class Dispensing experience; married; North of England not entertained. "Phenalgin" (25/2), Office of this Paper.

MANCHESTER.—Part-time, evenings and Saturdays; experienced. Stansfield, 6 Melbourne Avenue, Stretford.

MINOR man seeks part-time engagement; afternoons 1 p.m. to 6 p.m.; age 40; highest references and experience. Write, 24/26, Office of this Paper.

OPTICIAN (F.S.M.C.) and Pharmacist (Major), tall and of good appearance, considerable Retail and fair Optical experience, desires a berth. State salary, 21/7, Office of this Paper.

PHARMACIST; 27; experienced, reliable; Locum or comfortable permanency. "Pharmacist," 21 College Road, Saltley, Birmingham.

PHARMACIST (25), at present having charge of Dispensing Department in large high-class Store, requires responsible position with Wholesale house or good Managership. 25/7, Office of this Paper.

PHARMACIST, 37, shortly disengaged, desires position of trust; West-End Dispensing and Retail experience; excellent references. "Histogénol" (25/26), Office of this Paper.

PORTER, Chemist's, seeks situation; age 23; 10 years' experience and excellent references; abstainer. "Pharmaceutical," 20 Buckingham Road, Aylesbury, Bucks.

PRACTICAL Pharmacist, age 33, 11 years' qualification, 5 ft. 10½ in., smart appearance, willing, quick and clean worker, 8 years private business, 4 years Wholesale trade, clever Window-dresser, initiative and enterprise, up-to-date business-increaser, all branches of Photography, high-class Dispensing, also Insurance work, working knowledge of Optics, practical Medical Herbalist and Prescriber, desires advancement into progressive berth or working Partnership; present situation Store Manager (18 months, records made on 10 years' business); best offer over £200. 19/26, Office of this Paper.

QUALIFIED; Manager or Assistant; experienced, energetic, reliable; abstainer; good salary essential; disengaged one month; North or Midlands preferred. 20/20, Office of this Paper.

QUALIFIED Assistant; 28; good general experience; tall; disengaged; Manchester, Cheshire, or neighbourhood. 20/18, Office of this Paper.

QUALIFIED; aged 58; good experience; five or six hours daily; outdoors; London or Cambridge, or between on G.N. Railway. 20/5, Office of this Paper.

QUALIFIED; Manager or Senior; young; married; total abstainer; seaside preferable; disengaged end of April. Apply, 21/3, Office of this Paper.

QUALIFIED (25), high-class London and provincial experience, good references, desires permanency; outdoors; disengaged April 5. State hours and remuneration, "Chemist," 33 Lofthouse Place, Leeds.

QUALIFIED; disengaged; 41; all-round experience; Dispensership preferred. Barker, 1 Robinson's Place, Woodbrook, Oldham.

QUALIFIED Dispenser; experienced Doctors, Chemists; disengaged. "Eunatrol," 6 Brown Street, Withington, Manchester.

QUALIFIED Manager; disengaged; experienced; Extractor; Locum or permanency. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

QUALIFIED; Manager or Locum; married; good experience. Burton, 35 Avenue Road, Blackheath, Birmingham.

QUALIFIED, Minor; elderly, tall, active; good personality; exceptional experience, including N.H.I. Dispensing; permanency desired; married; salary moderate. 22/27, Office of this Paper.

QUALIFIED; Managership (good permanent); middle-aged; married; London or near; first-class experience; excellent references. 21/34, Office of this Paper.

QUALIFIED; 30; Manager or Senior; excellent experience and references. State salary offered, 23/26, Office of this Paper.

QUALIFIED; 30; West-End, South Coast experience; last two situations 7 years. 21/35, Office of this Paper.

QUALIFIED; elderly; temporary or permanent; disengaged April 18. J. Green, 23 Victoria Road, Edmonton.

QUALIFIED Manager; Store and West-End experience. Hunter, 10 Popes Road, Brixton.

QUALIFIED; Manager or Locum; thoroughly good all-round experience; good Prescriber, Counterman, Dispenser; most satisfactory references; disengaged to-morrow. "Phenol," 238 Derinton Road, Tooting, S.W.

QUALIFIED; elderly; undeniable references; position of trust. "Spes," 67 St. John's Wood Terrace, N.W.

QUALIFIED; Manager or Senior; disengaged; London only; reliable, good West-End experience; excellent references; permanency. State full particulars, "Perth" (25/16), Office of this Paper.

SURGEON'S Dispenser and Bookkeeper; thoroughly experienced in Surgery routine; 5½ years' experience; also Locum; 30s.; photo sent. "Medicus," 106 Landor Road, Clapham, S.W.

SWISS Pharmacist, aged 23, speaking French, German, and a little English, desires situation in a London Pharmacy or Wholesale Druggist's. Address, Hugo Bünter, Linden Hall Hotel, 111 Gower Street, W.C.

UNQUALIFIED.—At liberty shortly, smart, gentlemanly young man; 9 years' experience first-class City firm; Counterman. Davies, 40 Holland Street, Fairfield, Liverpool.

UNQUALIFIED; disengaged; 8 years' experience; good Counterman. Daykin, 34 Stretton Road, Leicester.

UNQUALIFIED; married; 32; Doctor's Dispenser; outdoors; good references. "W. R.," The Mill, Abercrch, Pwllheli.

UNQUALIFIED; 26; at liberty; Dispensing, Counter; experienced; London or suburbs; hours 9 till 6; or suitable Part-time, or would Dispense for Doctor or Institution. Apply, "Student" (19/30), Office of this Paper.

UNQUALIFIED Lady Assistant (23) desires re-engagement; 4½ years' experience; excellent Dispensing, Counter, and Photographic experience; good references. 15/31, Office of this Paper.

UNQUALIFIED, recently engaged, wishes situation in or near London; tall; 32; reasonable hours and salary; Wholesale, Retail, and Hospital experience (Scotland). "Jalap" (19/35), Office of this Paper.

UNQUALIFIED Assistant; age 40; all-round experience; London preferred; married. "Statim," 72 Tremadoc Road, Clapham, S.W.

UNQUALIFIED Assistant; disengaged shortly; country town; Retail, Dispensing, N.H.I.; Extractor; single. "Aspirin" (23/2), Office of this Paper.

UNQUALIFIED, 5 ft. 10 in., 24, desires change; wide experience, Wholesale and high-class Retail business. 22/2, Office of this Paper.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

YOUNG man wants situation as Assistant to Chemist; employed at present with large firm of Chemists; has serving experience and also a little Dispensing. Write, C. G. Payne, 43 Harpour Road, Barking, Essex.

WHOLESALE.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded.

AMBITIOUS young Irishman (24) requires post as Traveller and Wholesale Representative; 8 years' experience, Retail; thoroughly conversant with whole of Ireland. Replies to 19/33, Office of this Paper.

AMBITIOUS young man (22) requires post as Irish Traveller for an English house; 7 years' Wholesale experience; accept indoor post with view to travelling. State full particulars, "Liverpool" (18/36), Office of this Paper.

COMMERCIAL gentleman, disengaged, seeks position with good house; 5 years' experience Proprietaries, Surgical Dressings and Plasters, etc.; age 30; of good appearance and address; sound connection in London, Midlands, and North of England; first-class references. 21/32, Office of this Paper.

COMPETENT Warehouseman seeks responsible position; 12 years' London and provincial experience, Analytical, Technical and Educational Chemicals, also Buying experience. 17/40, Office of this Paper.

MANAGERESS.—English lady, 7 years' experience in German and English Chemical Works, requires similar situation. Apply, "Anglo-German" (21/5), Office of this Paper.

REAL energetic and capable young man desires change to Travel; 9 years present employers, first-class firm; highest references. Apply, 19/37, Office of this Paper.

SALES and Advertising Manager is desirous of concentrating his selling ability on the productions of one firm; at present and for the past five years with firms directing the publicity and sales effort behind various well-known Proprietaries; previously engaged in successfully placing Speciality on the English market for American house of the highest standing; able to organise and control selling staff and establish big business for meritable article; good personal Salesman, and knows Great Britain thoroughly from actual working; first-class references as to integrity and ability; correspondence invited, in confidence, from firms of standing only. "Capable" (25/22), Office of this Paper.

TRAVELLER (27), tall, two years' experience, West, South, Midlands, and London area, Proprietary, desires permanency. J. Berry, "Wellington View," Yarford, Kingston, Taunton.

TRAVELLER; 39; sound connection over South, East, and West of England and Wales; exceptional references. "Smilax" (18/30), Office of this Paper.

TRAVELLER, Drugs, Sundries, seeks engagement; 8 years' connection, North of England, Eastern Counties; commission and expenses. "Tact," 40 Arthur Road, Erdington, Birmingham.

UNQUALIFIED, married, all-round experience in Wholesale, 10 years Retail, desires position of trust; conscientious, energetic worker; control staff; gentlemanly appearance and address; first-class references. Apply, "Engaged" (18/29), Office of this Paper.

YOUNG man, age 25, requires situation as Wet Counterman, Distiller, or any other capacity; 10 years in Chemicals and Drugs. "A. S.," 27 Hartley Street, Green Street, Bethnal Green, E.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

AMBITIOUS young man (22), tall, strong, wants situation abroad; any capacity; 8 years' all-round Wholesale experience. Address, 21/18, Office of this Paper.

SOUTH AFRICA.—British qualified Chemist, Scotsman, 33 years of age, 10 years' South African experience, mostly Retail management, at present in South Africa, wishes position as Travelling Representative for first-class British Drug and Sundries house; thorough knowledge of country and requirements. Reply in first instance to 171/66, Office of this Paper.

MISCELLANEOUS.

MOADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

Shares for Sale (free of commission, subject).—75 Allenbury "B" 6 per cent. Preference, 23*s.* 7½*d.* c.d.; 300 Bovril Deferred, 6*s.* 10½*d.*; 200 Ilford Ordinary, 15*s.* 1½*d.*; 200 International Sponge 6 per cent. Preference, 11*s.*; 175 Day & Martin, 2*s.* 10½*d.*; 170 Veno Drug, 21*s.* 3*d.* x.d.; 150 Wright, Layman Preference, 21*s.* 7½*d.* c.d.; 250 Mazawattee Ordinary, 2*s.* 7½*d.*

Wanted (subject).—150 Meggeson Ordinary.

List of Shares for *Sale* and *Wanted* sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOWCASES (second-hand) ready for immediate despatch: Mahogany Wall Showcase, 6 ft. long, 9 ft. high, condition as new, £8; Ditto, 5 ft. long, with Bent Plate-glass Piano Case in centre, £11 10*s.*; 6-ft. Mahogany and Bent Plate-glass Counter Case, with Display Shelves, 90*s.*; Perfumery Showcase and Desk, 40*s.*; 12 ft. Mahogany and Plate-glass Serving Counter, £8 10*s.*; many hundreds of other bargains. Write inquiries. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

CHEMISTS' Fittings Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemists' working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

GOLDEN Opportunity.—The complete set of handsome Mahogany Fittings for smart Pharmacy; good as new; to be cleared at half their original cost; space wanted. Particulars, H. Mills, the Chemists' Practical Shopfitter, Shop Front Builder, Facia and Tablet Works, 163-5 Old Street, London, E.C.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

Get more money

out of your window. You can do it at little cost and no trouble. Your window at present shows goods and quotes prices. I will make it argue the case for the goods and convince people of their merits. Postcard brings details.

BROMLEY, *Chemist,* Whetstone, Middlesex.

ONCE USED—ALWAYS USED.

"Send one every fortnight, am more than satisfied," writes a Pharmacist re my centres. These are what you require, and are the best aids to high-class window-dressing and advertising you can have. Do not hesitate, send for one *now* and particulars of my extended service. Ready—Corn Cure, Tonic, Holiday Goods, Neuralgia M., Toilet, Tooth Powder, &c., &c. Size approx. 30 × 20. Price 2/6 each. Each centre makes one of the best artistic advertisements you can have. New idea for Vet. Prep. ready shortly.

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

WHITE and Martin's "Venereal Diseases," Wood's "Therapeutics," Cassell's "Lawyer," 3 vols., unsoiled; half price, or exchange good ½-plate camera. Martin, 148 Park Road, Portadown.

MISCELLANEOUS.

PILL plant, 3 grain; cost £18; take £12; used once. 6 Alwyne Square, Canonbury, N

WATER-BED, full size, new condition. Offers to Feroday, Chemist, Cannock.

CORKS, 10 gross, ⅞ diameter, 2s. 3d. (5 gross 1s. 3d.) post free. Griffin, Cockermouth.

POSTCARD Carbine Aldis 7.7; approval. Stancfield, 6 Melbourne Avenue, Stretford, Manchester.

VULCANISER, 3 flask; pill machines, 5 gr., for 12 and 24; pestle and mortar No. 6. Haggis, Chemist, Southsea.

ROBERTS' bottle-filler No. 1 for sale; perfect condition; price £13 10s. f.o.r. London. 173/2, Office of this Paper.

GARDNER mixing and sifting machine, with two extra sieves, good condition; also two large pestles and mortars; price £8 10s. the lot; cost £16. France. Wholesale Druggist, Moss Side, Manchester.

PILL machine, Clover's inhaler, obstetric bag complete, 17 volumes Ziemssen's "Encyclopædia of the Practice of Surgery." 23/34, Office of this Paper.

WANTED.

BENT-GLASS counter-case, also chop mirrors. Quote sizes and lowest price of each to Horton, Chemist, Chichester.

WANTED, for spot cash, complete (or part) equipment of dental establishment, surgery and workshop; second-hand. State full particulars, etc., 19/36, Office of this Paper.

ADVERTISER, who is opening a business in a Lancashire town, will be glad to negotiate for complete set of fixtures and fittings. 24/17, Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

SECOND-HAND wall-case, as 20a Evans' list, or modification of same; must be in good condition; about 9 ft. long, not more than 9 ft. high and 9 in. deep. Gill, 207 Radford Road, Nottingham.

ADDRESSES WANTED.

WOULD any pharmacist oblige with the present address of Mr. Alexander Smith, chemist's assistant, late of Tunbridge Wells and Westgate-on-Sea? Evans, Chemist, Margate.

"Guide to Preliminary Examinations in Pharmacy," etc.—Many of our readers will be considering from time to time what to do with their sons, and in this connection may desire to ascertain the degree of difficulty of examinations for pharmacy, medicine, dentistry, etc. This little volume contains full information as to the regulations, together with sample papers and many useful hints on all the subjects given at the Preliminary examinations for these professions, and it is a book necessary to the intending competitor and useful to the parent seeking information.—*The Schoolmistress.*

DEED OF ARRANGEMENT.

Nicholson, William Renwick, 214 Ravensworth Road, Dunston, and 422 Windermere Street, Gateshead, Durham, Druggist.—Trustee: G. J. Bell, 24 Grainger Street West, Newcastle-on-Tyne. Dated, March 17; filed, March 21. Liabilities unsecured, 141*l.*; estimated net assets, 42*l.* The creditors include: Hirst, Brooke & Hirst, Ltd., Leeds (13*l.*); A. de St. Dalmas & Co., Leicester (10*l.*); J. Ismay & Sons, Newcastle-on-Tyne (10*l.*).

GAZETTE.

The Bankruptcy Acts.

Receiving Orders.

Brandon, H., & Co., Virginia Road, Bethnal Green, mineral-water manufacturers.

Facey, R. A., 50 St. Quintin Avenue, North Kensington, medical practitioner.

Adjudications.

Facey, R. A., St. Quintin Avenue, North Kensington, and Cornwall Road, Bayswater, medical practitioner.

Galgey, R. C., Carlisle Road, Sheffield, physician and surgeon.

POISONING FATALITIES.

Four deaths consequent upon the effects of poisons have been chronicled since our last issue.

Ammonia.—At the inquest at Storrs Hall Asylum, near Huddersfield, on John Frederick Cullingford (61), woolcomber, Bradford, the evidence showed that seven weeks ago the man had drunk some lotion. The jury found that death was due to stricture of the opening of the stomach, due to taking ammonia while of unsound mind.

Oxalic Acid.—At an adjourned inquest at Middlesbrough on Eliza Roche (30), domestic servant, a verdict was returned to the effect that death was due to poisoning by oxalic acid taken by the girl while in a temporary state of unsound mind.

Potassium Cyanide.—The Rev. Charles Alexander Wesley, rector of Grosmont, died from taking potassium cyanide. A Coroner's jury stated that there was not sufficient evidence to show whether the poison was taken accidentally or intentionally.

Veronal.—Agnes Emma Henley (61), widow, died by misadventure at Cuckfield Infirmary from veronal-poisoning.

NEW BOOKS.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Crinon, C. *Revue des Médicaments Nouveaux et de quelques médications nouvelles.* 6¼×4. Pp. 430. 4f. (Vigot, 23 Place de l'Ecole de Médecine, Paris.) [This is the twenty-first year of the publication of this revue of new remedies. There has been added a good number of recent introductions, such as acitrine, adigan, cephalidone, galyl, hedrosite, leptynol, ludyl, muhydrine, ortizone, toxinone, and trigemine. In each case particulars are given as to doses, methods of administration, and therapeutics of the remedies. The revue is in French, but many pharmacists will not be deterred by that consideration.]

Handy Newspaper List, 1914. 7¼×5⅜. Pp. 175. 6*d.* (C. & E. Layton, 56 Farringdon Street, London, E.C.) [The twenty-fourth annual edition of a list of the newspapers and periodicals published in the United Kingdom. It is arranged under towns in alphabetical order, with the exception of London, which is placed first.]

Illingworth, S. R. *The Co-operation of Science and Industry.* 6⅛×3⅝. Pp. 91. Bound in leather, 1s. 6*d.* net. (Chas. Griffin & Co., Ltd., 12 Exeter Street, London, W.C.) [The author urges that to obtain the maximum return from education it is necessary to have the co-operation of commercial men, so as to employ in a greater degree than hitherto the combined forces of industry, science, and education for the benefit of the nation. Sir Boverton Redwood, Bart., writes the preface in the same strain.]

Lindley-Jones, W. *Mercantile Year-book and Directory of Exporters.* 7¼×4¾. Pp. 730. 10s. (Lindley-Jones &

Bro., 16 St. Helen's Place, London, E.C.) [This year-book has been published annually for twenty-eight years. It is divided into six parts. Part I. is a list of London exporters in street order; Part II. gives the name and address of importers in British Colonies and foreign countries; Part III. indexes the names of exporters under the classes of goods shipped from London, their full addresses being given in Part IV.; Parts V. and VI. deal with the exporters of the chief provincial cities of the United Kingdom and of the Continent. Part II. has been considerably extended this year.]

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," March 11, 1914.*)

"ALPHA"; for a skin-ointment (3). By R. Ashton, Trafford Bank House, Chester Road, Old Trafford, Manchester. 357,053.

"JOINTMENT"; for a liniment (3). By The Midland Drug Co., Hippodrome Chambers, Goldsmith Street, Nottingham. 358,179.

"DMÈGON"; for all goods (3). By Société Anonyme des Etablissements Poulenc Frères, 92 Rue Vieille-du-Temple, Paris. 357,216.

Device of woman's bandaged head; for a medicine (3). By Daisy, Ltd., Mammoth Works, Marshall Street, Holbeck, Leeds. 358,280.

"BISUROIDS" and "BISUTHATED"; for medicinal chemicals (3). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 358,217/8.

"RECTAVIST"; for spectacle lenses (8). By Nitsche & Gunther Optical Co., Ltd., 66 Hatton Garden, London, E.C. 358,369.

"GESTIVO"; for a digestive food (42). By M. Smith & Co., Church Street, Kidderminster. 357,941.

"PRESANO"; for metallic containers for chemicals (13). By T. Hughes, 46 Victoria Road, Birkenhead. 356,939.

Picture of Bow Bridge (words "BOW BRIDGE" disclaimed); for goods (47 and 48). By F. J. Hunt & Co., Ltd., Bow Bridge, London, E. 353,978/9.

"STAG BRAND," with picture of same; for soap (48). By Tyson & Co., Ltd., 6 Blackstock Street, Liverpool. 351,807.

Label devices with words "MITTA SHI-ZYA" and "WOONTHA-ZAYA"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, London, E. 356,050/055.

"BELLAVAR"; for perfumery, etc. (48). By Gwladys V. Bell, 28 Redcliffe Square, Earl's Court, London, S.W. 357,819.

Label device, with word "PANDORA"; for perfumery, etc. (48). By J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W. 358,122.

"GARDEN OF ALLAH"; for perfumery, etc. (48). By Curtis & Co., 48 Baker Street, London, W. 358,201.

PORTSMOUTH PHARMACISTS' ASSOCIATION.

MR. C. H. BAKER presided at the monthly meeting held at the Town Hall on Wednesday afternoon, March 25; fifteen members attended. Some matters of local interest were disposed of, the rest of the time being monopolised by a discussion on the Parliamentary Fund. Some of the speakers were inclined to look on the dark side. On the general principle, however, there was no difference of opinion, and the Association voted seven guineas, to be supplemented by individual donations, those present collectively promising 8*l*. It was considered that stronger support would have been accorded if the candidate were named, and if a guarantee were forthcoming that he would be prepared to vote against his Party Whip, if necessary, on pharmaceutical questions. The note in the *C. & D.*, March 21, p. 50, on the sale of diachylon, having been mentioned, the President pointed out that the Portsmouth Pharmacists' Association resolved in April 1911 that none of the members would sell the stuff, and, although the abuse was perhaps not prevalent locally, the Association is certainly not behind Newcastle-on-Tyne in the matter.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur

Tuesday, March 31.

Glasgow and West of Scotland Chemists' Association, Building House, 183 Bath Street, Glasgow, at 7 P.M. Whist-drive and dance. Tickets (lady's 3*s*., gentleman's 3*s*. 6*d*.) from Mr. W. J. Moffat, 741 Pollokshaws Road, Glasgow.

Wednesday, April 1.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Mr. Parkin S. Booth, F.A.A., Accountant to the Association of Manufacturing Chemists, on "Chemists' Business Organisation, Accounts and Income-tax Returns."

Newcastle-on-Tyne Pharmacists' Association, Hôtel Métropole, Clayton Street West, at 8 P.M. Discussion on Pharmaceutical Society's organisation scheme.

Nottingham Pharmaceutical Association, Victoria Station Hotel, at 8 P.M. Social evening.

North Cheshire Pharmacists' Association, The Albion Hotel, Piccadilly, Manchester, at 3 P.M. Annual meeting.

Thursday, April 2.

Chemical Society, Burlington House, London, W., at 8.30 P.M. Among the papers to be communicated are the following: "The System: Ethyl Ether—Water—Potassium Iodide—Mercuric Iodide.—Part III. Solutions Unsaturated with Respect to Solid Phases in the Four-component System," by Mr. A. C. Dunningham; "The Velocity of Saponification of Phenyl Benzoate," by Messrs. H. McCombie and H. A. Scarborough; "A General Method for the Preparation of Glyoxals and their Acetals," by Messrs. H. D. Dakin and H. W. Dudley; "The Action of Sulphuric Acid on *p*-Formaldehyde," by Mr. J. G. M. Dunlop; "The Constitution of the Glycerylphosphates: the Synthesis of α and β Glycerylphosphates," by Messrs. H. King and F. L. Pyman; "The Destructive Distillation of Soil," by Mr. E. J. Holmyard.

Chemists' Assistants' Association, King's Hall, Holborn Restaurant, London, W.C., at 7.30 P.M. Annual dinner. Tickets (5*s*. 6*d*. each) from Mr. A. R. Arrowsmith, 4 Stratford Place, London, W.

North London Pharmacists' Association, St. Pancras Lecture Hall, Gloucester Road, Seven Sisters Road, Holloway, N., at 3.30 P.M. Mr. Hugo Wolff and Mr. Arthur H. Jenkins on "The Working of the Insurance Machine."

West Ham Association of Pharmacists, Earlham Hall, Forest Gate, London, E., at 3 P.M. Consideration of draft rules for the re-constitution of the Association.

Great Yarmouth Pharmaceutical Association. Annual meeting and election of officers.

Friday, April 3.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Professor Sir J. J. Thomson on "Further Researches on Positive Rays."

SOUTHAMPTON PHARMACISTS' ASSOCIATION.—The annual dinner will be held at the South-Western Hotel on April 29.

UCAL LODGE OF PHARMACY.—Complimentary dinner to Mr Harold Miller at the London Tavern, 53 Fenchurch Street, London, E.C., on April 23. Tickets (5*s*. each) from Mr. G. W. Evans, 200 Hammersmith Road, London, W.

LONDON (S.W.) PHARMACISTS' ASSOCIATION.—The annual dinner will be held at the Restaurant Frascati, Oxford Street, W., on April 29. Tickets (7*s*. 6*d*. each) from Mr. E. A. Atkins, Hon. Secretary, 71 East Hill, Wandsworth, S.W.

WESTERN PHARMACISTS' ASSOCIATION.—A social evening (whist-drive, supper, dance, and music) will be held at the Restaurant Frascati on April 22. Tickets (lady and gentleman 9*s*., single 5*s*.) from the Secretaries and members of Committee.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—An evening meeting is to be held on April 7, when Professor G. T. Morgan, D.Sc., will read a paper on "Organic Derivatives of Arsenic and Antimony." Another meeting has also been arranged for April 21.

PUBLIC PHARMACISTS' AND DISPENSERS' ASSOCIATION.—The annual Bohemian concert will be held on April 29 at Anderton's Hotel, Fleet Street, London, E.C. Tickets (1*s*. each) from Mr. G. W. Gibson, Hon. Secretary, St. Pancras South Infirmary, Pancras Road, N.W.

MANCHESTER AND SALFORD CHEMISTS' ASSISTANTS' ASSOCIATION.—The paper on "Poisons Regulations" by Mr. F. Dickinson has been postponed from March 25 to April 8. Intending competitors for prize competition on May 13 and for the Fairchild Scholarship examination in June should make a point of being present, as the subject will be thoroughly discussed.

MESSRS. J. E. & S. SPENCER intimate that from March 25 their office address is 16 Dowgate Hill, London, E.C., and warehouse, 33 Dowgate Hill, E.C.

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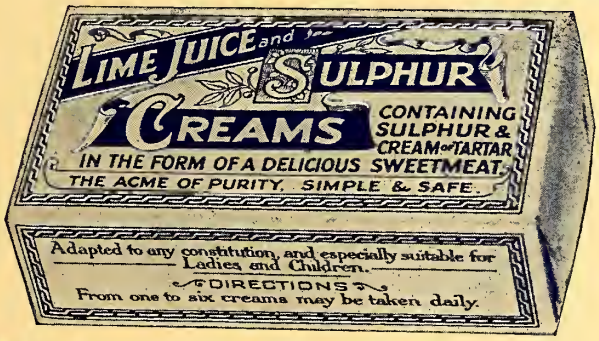

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